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ABSTRACT

The Objective-Item Bank presented covers 16 sections of four subject areas in each of four grade levels. The four areas are: Language Arts, Math, Social Studies, and Science. The four grade levels are: Primary, Intermediate, Junior High, and High School. The Objective-Item Bank provides school administrators with an initial starting point for curriculum development and with the instrumentation for program evaluation, and offers a mechanism to assist teachers in stating more specifically the goals of their instructional program. In addition, it provides the means to determine the extent to which the objectives are accomplished. This document presents the Objective Item Bank for junior high science. (CK)

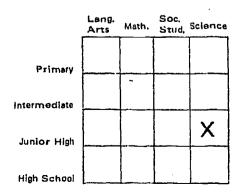
JUNIOR HIGH SCIENCE BEHAVIORAL OBJECTIVES AND TEST ITEMS

EVALUATION FOR INDIVIDUALIZED INSTRUCTION

A Title III ESEA project administered by Downers Grove, Illinois

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JUNIOR HIGH SCIENCE

BEHAVIORAL OBJECTIVES AND TEST ITEMS



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Evaluation for Individualized Instruction Project
AN ESEA TITLE III PROJECT

Administered

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Downers Grove Public School District 99



BEHAVIORAL OPUECTIVE - TEST ITEM PANK

BACKGROUND

The Evaluation for Individualized Instruction Project, an ESEA Title III project administered by the Downers Grove, Illinois, School District 99, has developed an Objective-Item Bank covering sixteen sectors of four subject areas in each of four grade levels.

Subject Area

| | LA | MA | SS | SC |
|----|----|----|----|----|
| 1 | 11 | 12 | 13 | 14 |
| 2 | 21 | 22 | 23 | 24 |
| 3 | 31 | 32 | 33 | 34 |
| 14 | 41 | 42 | 43 | 44 |

LA = Language Arts

MA = Math

SS = Social Studies

SC = Science

1 = Primary

2 = Intermediate

3 = Junior High

4 = High School

Nearly 5000 behavioral objectives and over 27,000 test items based on these objectives were recently published as the culmination of this three-year project. The complete output of seventeen volumes totals over 4500 pages. These publications have been reproduced by the Institute for Educational Research to make them available at cost to teachers and administrators.

The objectives and items were written by over 300 elementary and secondary teachers, representing forty Chicago suburban school districts, who participated in workshops of three to nine weeks duration throughout the project. In these workshops they learned to write effective behavioral objectives and test items based on the objectives. The results of their work were edited for content and measurement quality to compile the largest pool of objectives and test items ever assembled.

PRINCIPLES AND MERITS

Unfortunately, the Objective-Item Bank is often viewed mainly as a source of test items. Although this is an important function, its greatest potential impact lies not in the availability of a multitude of test items, but rather in the ability of these items to measure carefully selected educational goals.

The almost frenetic search for test items on the part of some educators has been spurred by the current emphasis on measurement. Some educators have become so enamored with measurement that they seem more interested in obtaining a numerical index than examining what they are really trying to measure. Further, it is



not unusual for teachers to speak about a child obtaining a score of 95% on a particular test. Frequently, they encounter considerable difficulty in interpreting the real meaning of a score and are content to just accept its numeral value. A much more important question would seem to be: What are our goals of measurement? Unless we can answer this question precisely, the only real purpose that testing serves is to gather data concerning pupils to facilitate the marking of report cards. This is not to say that this function is not legitimate - it is rather to say that such a view of measurement is much too constricting. The goal of measurement should be to provide feedback both to the teacher and the child regarding the success or failure of the learning experiences in realizing specifically stated objectives.

One of the main strengths of the EII Objective and Item Bank is that all the items are directly tied to specifically stated objectives. Each group of items is designed to measure a specific objective and therefore provides the means whereby the teacher can obtain feedback on the success of the educational program.

It is disheartening to observe so many districts attacking the complex problem of curriculum development independently. One cannot help reflecting on the mammoth duplication of efforts involved. The Objective-Item Bank offers a possible alternative to this duplication. Utilizing its resources, the curriculum committee is provided with some point of departure. The efforts of three hundred teachers participating in the Evaluation Project's workshops and the thoughts of forty districts can be evaluated and utilized. This is not to suggest that any set of objectives should be viewed as the "answer" to an individual district's curricular problem but rather the efforts of others offer a convenient point of departure and may serve to stimulate diverse opinions about the direction of curricular thrust within the individual district. The words of Sir Isaac Newton seem appropriate; "If I have seen further, it is by standing upon the shoulder of giants." The efforts of others, whether we consider them giant-like or pygmyish, do offer a threshold to view the immense, complicated problem of curricular development in better perspective.

The title of an article in a recent educational journal, "If You're Not Sure Where You're Going, You're Liable to End up Someplace Else," succinctly describes a continuing dilemma in our educational system. The vagueness of our goals often promotes the idea that "anything goes." Without a guiding beacon many classrooms become activity-centered rather than goal-orien .d. One educator recently compared the all-too-typical classroom with Henry Ford's observation concerning history. He defined history as, "One damned thing after another." Is this true of the succession of activities within our classrooms? Does the teacher really know the educational purpose of each activity? Perhaps, even more importantly, do the children know the purpose?

The Objective-Item Bank offers a mechanism to assist teachers in stating more specifically the goals of their instructional program and further provides the means to determine the extent to which the objectives are accomplished. The specification of goals assists the teacher in discovering whether favored activities advance learning, or are merely time fillers; whether they get the "materials" across, or are merely perfunctory exercises.

ii

Much discussion has been devoted to the topic of "why individualized instruction?" and occasionally some dialogue has even centered on the "how." But an even more basic question is one that is often ignored: "Individualize what?"

Many school districts mention their individualized programs in reading or mathematics. What is individualized within these programs? Are certain skills definitely identified? Is the practice of pretesting to determine the child's level of proficiency when he enters the program a guideline?

The Objective-Ftem Bank has two potential contributions to make to all school districts embarking on or presently engaged in individualized instruction programs. These contributions are: 1. A group of well-specified objectives which could form the "what" of the program. 2. A set of items designed to provide information on the degree of mastery of the objective.

APPLICATIONS AND TECHNIQUES

The versatility of the Objective-Item Bank is evident in the value and usability by both teachers and administrators.

To the Administration the Objective-Item Bank:

- 1. Provides an initial starting point for curriculum development. The existence of many objectives avoids the necessity of each district duplicating the efforts of another. The task of the curriculum committee becomes one of selecting and/or rejecting objectives from the Objective Item Bank and then supplementing them with objectives developed at the local level. Past-participants of the Evaluation Project workshops would be valuable resource people in this endeavor.
- 2. Provides the instrumentation for program evaluation. The selection of items from those objectives representative of the main emphases of the local district provides the framework for the evaluation of the stated goals.

To the Teacher the Objective-Item Bank:

- 1. Provides the pooling of talent and imagination of teachers of varied experience and interests, thus avoiding the present duplication of effort.
- 2. Provides resources for more highly sensitized program evaluation instead of a battery of standardized tests. Since the objectives are tailored to the program, the associated test items can be used to determine precisely the efficacy of the instructional materials.
- 3. Provides the means whereby the teacher can become more acutely aware of that which he is seeking to have occur in his classroom and that which he will accept as evidence of its occurrence. Hopefully, as teachers become more aware of their goals, they will share these



objectives with children and let the pupils become acutely aware of that which is expected of them, ergo allowing them to seek their own modality of instruction for the realization of the stated goals.



- 4. Provides the nucleus of an individualized instruction program.
 - a. It provides for more precise curriculum planning by differentiating those goals specific to each grade and even to each student. With the bank at their disposal, teachers are encouraged to become aware of their responsibilities in developing a set of basic objectives which every child must attain and a further set which can be pursued according to the students' abilities and interests.
 - b. It provides several items per objective, some of which may be used as a pre-test to discover whether a student should undertake that objective while the remainder may be employed to measure the mastery of those students who do tackle the objective.

NOTES

Several of the volumes have been reproduced from punched cards by the IBM 407, a machine which does not print all characters exactly as they appear on a type-writer. Thus:

```
% is actually (

n is actually )

0 is actually ? or !

Apostrophes cannot be printed.
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The number immediately after the statement of each objective represents the number of items measuring attainment of that objective.

Information on the EII publications or purchase requests can be directed to:

INSTITUTE FOR EDUCATIONAL RESEARCH
1400 West Maple Avenue
Downers Grove, Illinois 60515



iv

JUNIOR HIGH SCIENCE

RESPIRATORY SYSTEM

| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE RESPIRATORY SYSTEM BY IDENTIFYING DEFINITIONS AND FUNCTIONS OF PARTS OF THE SYSTEM. %790 | 0001 |
|--|------|
| DIRECTIONS SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE COMPLETE PROCESS OF GETTING AIR INTO AND OUT OF THE LUNGS IS CALLED A. INSPIRATION. B. INHALING. *C. BREATHING. D. EXPIRATION. | 0079 |
| BREATHING IS THE PROCESS OF *A. TAKING AIR INTO AND OUT OF THE LUNGS. B. TAKING AIR INTO THE LUNGS. C. GETTING RID OF WASTES. D. GETTING AIR OUT OF THE LUNGS. | 80 |
| BREATHING INCLUDES A. INGESTING AND DIGESTING. *B. INHALING AND EXHALING. C. INCULCATING AND EXCULPATING. D. INGESTING AND MASTICATING. | 81 |
| BREATHING INCLUDES *A. INSPIRATION AND EXPIRATION. B. INGESTION AND MASTICATION. C. INGESTION AND DIGESTION. D. INCULCATION AND EXCULPATION. | 82 |
| INHALING AND EXHALING MAY PROPERLY BE CALLED *A. BREATHING. B. EXPIRING. C. OXIDATION. D. ALVEOLATION | 0083 |
| INSPIRATION AND EXPIRATION MAKE UP WHAT MAY PROPERLY BE CALLED A. OXIDATION. B. ALVEOLATION. C. EXPIRING. **D. BREATHING. | 0084 |
| THE LIFE PROCESS IN WHICH OXYGEN IS TAKEN INTO THE BODY AND CARBON DIOXIDE IS RELEASED IS CALLED A. INSPIRATION. B. OXIDATION. C. EXHALATION. *D. RESPIRATION. | 0085 |
| RESPIRATION MAY BE DEFINED AS THE PROCESS OF *A. TAKING OXYGEN INTO THE BODY AND RELEASING CARBON DIOXIDE. | 0086 |

ERIC Full Text Provided by EF B. TAKING NITROGEN WASTES FROM THE BLOOD.

| C. TAKING CARBOHYDRATES INTO THE BODY AND RELEASING CARBON | |
|---|------|
| MONOXIDE. D. CHANGING FOOD FROM A SOLID TO A LIQUID. | |
| TO SOME PEOPLE RESPIRATION MEANS A. OXIDATION. **B. BREATHING. C. EXPIRATION. D. EXHALING. | |
| THE CHEMICAL CHANGE IN WHICH CELLS GET ENERGY FROM FOOD BY USING OXYGEN AND GIVING OUT CARBON DIOXIDE IS CALLED A. EXPIRATION. B. OXIDATION. C. INGESTION. *D. RESPIRATION. | |
| BREATHING MAY BE CALLED A. INSPIRATION. B. OXIDATION. *C. RESPIRATION. D. EXHALING. | 89 |
| RESPIRATION IS DEFINED AS THE CHEMICAL CHANGE IN WHICH *A. CELLS GET ENERGY FROM FOOD BY USING OXYGEN AND GIVING OUT CARBON DIOXIDE. B. FOOD IS PRODUCED BY USING CARBON DIOXIDE AND WATER AND GIVING OFF OXYGEN. | 0090 |
| C. FOOD IS BROKEN DOWN INTO CARBON, HYDROGEN, OXYGEN AND NITRUGEN. D. ENERGY IS RELEASED FROM FOOD BY USING WATER AND CARBON MONOXIDE. | |
| THE EXCHANGE OF GASES %CO AND O D WHICH TAKES PLACE IN THE 2 2 ALVEOLI OF THE LUNGS IS CALLED A. EPIDERMAL RESPIRATION. *B. EXTERNAL RESPIRATION. C. CELLULAR RESPIRATION. D. INTERNAL RESPIRATION. | 91 |
| IN EXTERNAL RESPIRATION THERE IS AN EXCHANGE OF GASES %CO AND O TI 2 2 #A. IN THE ALVEOLI OF THE LUNGS. B. IN THE CELLS OF THE SKIN C. IN THE NOSE. D. IN THE PHARYNX. | 0092 |
| THE EXCHANGE OF OXYGEN AND CARBON DIOXIDE BETWEEN THE CELL AND THE BLOOD IS CALLED A. ALVEOLAR RESPIRATION. B. EXTERNAL RESPIRATION. C. EPIDERMAL RESPIRATION. *D. INTERNAL RESPIRATION. | 0093 |
| IN INTERNAL RESPIRATION THERE IS AN EXCHANGE OF #A. OXYGEN AND CARBON DIOXIDE BETWEEN THE CELL AND THE BLOOD. B. CARBON MONIXIDE BETWEEN THE ALVEOLI AND THE CELLS. C. CARBON DIOXIDE BETWEEN THE CILIA AND THE CELLS. | 0094 |

ERIC

2 0

D. CARBON MONIXIDE BETWEEN THE RED BLOOD CELLS AND THE WHITE

BLOOD CELLS.

| THE AIR SACS OF THE LUNGS ARE CALLED A. BRONCHI. | 95 |
|---|-----------|
| B. BRACHEA. C. CILIA. *D. ALVEOLI. | |
| ALVEOLI ARE A. FINGER-LIKE PROJECTIONS IN THE SMALL INTESTINE. B. TINY LIVING HAIRS IN THE AIR PASSAGES. *C. AIR SACS IN THE LUNGS. D. GRANULES WITHIN THE NUCLEI OF BLOOD CELLS. | 96 |
| CILIA ARE A. FINGER-LIKE PROJECTIONS IN THE SMALL INTESTINE. B. TINY LIVING HAIRS IN THE AIR PASSAGES. C. AIR SACS IN THE LUNGS. *D. GRANULES WITHIN THE NUCLET OF BLOOD CELLS. | 97 |
| THE TINY LIVING HAIRS THAT LINE THE AIR PASSAGES ARE CALLED A. BRONCHI. B. VILLI. C. ALVEOLI. *D. CILIA. | 0098 |
| THE FUNCTION OF CILIA IS A. TO KEEP FOOD FROM GOING DOWN THE WINDPIPE. B. TO AID IN THE ABSORPTION OF FOOD. *C. TO SWEEP DUST AND OTHER UNWANTED MATERIALS UP AND OUT OF THE AIR PASSAGES. D. TO ALLOW FOR THE EXCHANGE OF OXYGEN AND CARBON DIOXIDE BETWEEN AIR AND THE BLOOD. | 99 |
| THE FUNCTION OF THE ALVEOLI IS *A. TO ALLOW BLOOD TO GIVE UP CARBON DIOXIDE AND TAKE ON OXYGEN. B. TO SWEEP DUST AND OTHER UNWANTED MATERIALS UP AND OUT OF THE AIR PASSAGES. C. TO ABSORB DIGESTED FOOD INTO THE BLOOD STREAM. D. TO KEEP FOOD FROM GOING DOWN THE WINDPIPE. | 100 |
| WHEN AIR IS BREATHED IN. IT FIRST GOES INTO A. THE SEPTUM. B. THE PHARYNX. **C. THE NOSE. D. THE GLOTTIS. | 0101 |
| THE SCIENTIFIC NAME FOR THE VOICE BOX IS A. PHARYNX. *B. LARYNX. C. ALVEOLUS. D. VILLUS. | 0102 |
| THE LARYNX IS COMMONLY KNOWN AS A. THE WINDPIPE. B. THE FOOD TUBE. *C. THE VOICE BOX. D. THE THROAT. | 103 |
| THE ACTENTIFIC NAME FOR THE THOMAT IS | 0304 |



THE SCIENTIFIC NAME FOR THE THROAT IS

0104

| B. ESUPHAGUS. C. TRACHEA. *D. PHARYNX. | |
|--|------|
| THE PHARYNX IS COMMONLY CALLED A. THE WINDPIPE. *R. THE THROAT. C. THE VOICE BOX. D. THE FOOD TUBE. | 105 |
| THE OPENING OF THE LARYNX THROUGH WHICH AIR ENTERS IS CALLED #A. THE GLOTTIS. B. THE PHARYNX. C. THE EPIGLOTTIS. D. THE TRACHEA. | 0106 |
| THE GLOTTIS IS THE OPENING A. OF THE BRONCHI. *B. OF THE LARYNX. C. OF THE ESOPHAGUS. D. OF THE ALVEOLUS. | 107 |
| THE EPIGLOTTIS IS #A. A FLAP OF TISSUE THAT COVERS THE GLOTTIS DURING SWALLING. B. THE FLAP OF TISSUE THAT KEEPS FOOD FROM GOING INTO THE THE THROAT DURING CHEWING. C. THE OPENING OF THE LARYNX. D. THE OPENING OF THE ESOPHAGUS. | 108 |
| THE FLAP OF TISSUE THAT COVERS THE OPENING OF THE LARYNX DURING SWALLOWING IS CALLED A. THE PHARYNX. 4B. THE EPIGLOTTIS. C. THE GLOTTIS. D. THE ESOPHAGUS. | 0109 |
| THE TRACHEA IS COMMONLY CALLED A. THE THROAT. B. THE FOOD TUBE. **C. THE WINDPIPE. D. THE VOICE BOX. | 110 |
| THE SCIENTIFIC NAME FOR THE WINDPIPE IS A. ESOPHAGUS. **B. TRACHEA. C. PHARYNX. D. LARYNX. | 0111 |
| IN ORDER THAT IT WILL NOT COLLAPSE THE TRACHEA IS SUPPORTED BY A. THE ESOPHAGUS. **B. BANDS OF CARTILAGE. C. MUSCLES ATTACHED TO THE STERNUM. D. THE SYOID BONF. | 0112 |
| THE SHEET OF MUSCLE SEPARATING THE CHEST CAVITY FROM THE ARDOMINAL CAVITY IS CALLED A. THE EPIGLOTTIS. B. THE UVULA. C. THE SOFT PALATE. #D. THE DIAPHRAGM. | 0113 |



| THE DIAPHRAGE DEPARATED *A. THE CHEST CAVITY FROM THE ABDOMINAL CAVITY. B. THE HEART FROM THE LUNGS. C. THE TRACHEA FROM THE ESOPHAGUS. D. THE STOMACH FROM THE LIVER. | 114 |
|--|------|
| THE TRACHEA DIVIDES INTO TWO TUBES CALLED A. ALVEOLI. B. VILLI. *C. BRONCHI. D. GLOTTI. | 0115 |
| THE PROCESS IN WHICH OXYGEN COMBINES CHEMICALLY WITH OTHER SUBSTANCES IS CALLED A. REDUCTION. **B. OXIDATION. C. COHESION. D. CONDUCTION. | 0116 |
| OXIDATION IS THE PROCESS IN WHICH A. OXYGEN IS RELEASED FROM WATER. | 117 |
| B. OXYGEN IS TRANSFERRED FROM ONE MOLECULE TO ANOTHER. C. AN OXIDE IS RELEASED FROM A CHEMICAL REACTION. *D. OXYGEN COMBINES CHEMICALLY WITH OTHER SUBSTANCES. | , · |
| THE MAJOR PART OF THE BREATHING MOTION IS PRODUCED BY A. THE HEART. *B. THE DIAPHRAGM. C. THE RIBS. D. THE SPINAL COLUMN. | 0118 |
| THE TURES WHICH CONNECT THE TRACHEA WITH THE LUNGS ARE CALLED *A. ALVEOLI. B. BRONCHI. C. GLOTTI. D. VILLI. | 0124 |
| THE BRONCHI ARE TUBES THAT CONNECT A. THE TRACHEA AND LUNGS. *B. THE PHARYNX AND LARYNX. C. THE LARYNX AND ESOPHAGUS. D. THE ESOPHAGUS AND LUNGS. | 125 |
| THE TINY LIVING HAIRS THAT SWEEP DUST AND OTHER UNWANTED MATERIALS UP AND OUT OF THE AIR PASSAGES ARE CALLED *A ** ** ** ** ** ** ** ** ** ** ** ** | 0126 |
| THE PARTS OF THE RESPIRATORY SYSTEM WHICH ALLOW BLOOD TO GIVE UP CARBON DIOXIDE AND TAKE ON OXYGEN ARE CALLED A · CILIA · B · VILLI · C · BRONCHI · *D · ALVEOLI · | 0127 |
| RRINGING FRESH AIR INTO THE LUNGS IS CALLED *A. INHALING. B. EXHALING. C. INGESTING. | 0128 |

| D. RESPIRATION. | |
|--|------|
| FORCING USED AIR OUT OF THE LUNGS IS CALLED A. RESPIRATION. B. INHALING. **C. EXHALING. D. INGESTING. | 0129 |
| TAKING FRESH AIR INTO THE LUNGS IS CALLED *A. INSPIRATION. B. EXPIRATION. C. INGESTION. D. RESPIRATION. | 0130 |
| FORCING AIR OUT OF THE LUNGS IS CALLED A. INGESTION. B. RESPIRATION. *C. FXPIRATION. D. INSPIRATION. | 0131 |
| AIR COMING INTO THE BODY PASSES FROM THE NOSE TO THE *A. PHARYNX. B. LARYNX. C. FSOPHAGUS. D. ALVFOLI. | 0132 |
| FROM THE PHARYNX THE AIR CONTINUES TO A. THE TRACHEA. **B. THE LARYNX. C. THE ESOPHAGUS. D. THE ALVEOLI. | 0133 |
| FROM THE THROAT THE AIR CONTINUES TO *A. THE VOICE BOX. B. THE WIND PIPE. C. THE AIR SACS. D. THE BRONCHIAL TUBES. | 134 |
| THE BRONCHIAL TUBES CONNECT *A. THE WIND PIPE AND LUNGS. B. THE THROAT AND VOICE BOX. -C. THE VOICE BOX AND FOOD TUBE. D. THE VOICE BOX AND THE WIND PIPE. | 135 |
| FROM THE LARYNX THE AIR BREATHED IN GOES TO A. THE PHARYNX. *B. THE BRONCHI. C. THE ALVEOLI. D. THE TRACHEA. | 0136 |
| FROM THE VOICE BOX THE AIR BREATHED IN GOES TO A. THE THROAT. B. THE BRONCHIAL TUBES. C. THE AIR SACS. *D. THE WIND PIPE. | 0137 |
| INHALED AIR TRAVELS FROM THE TRACHEA TO #A. THE BRONCHI. B. THE ALVEOLI. | 0138 |
| C. THE PHARYNX. D. THE LARYNX. 12 | |

| · | ON ITS WAY TO THE LUNGS ATK TRAVELS FROM THE WIND PIPE TO *A. THE BRONCHIAL TURES. B. THE AIR SACS. C. THE THROAT. D. THE VOICE BOX. | 0139 |
|----------|--|------|
| 1 | THE BRONCHI DIVIDE INTO SMALLER TURES CALLED A. ALVFOLI. *B. BRONCHIOLES. C. ARTERIOLES. D. VENULES. | 0140 |
| | ON ITS WAY TO THE ALVEOLI AIR PASSES FROM BRONCHI THROUGH THE A. ARTERIOLES. *B. BRONCHIOLES. C. ALVFOLI. D. VENULES. | 0141 |
| | INHALED AIR GOES FROM THE BRONCHIOLES TO A. THE GLOTTI. B. THE VILLI. *C. THE ALVEOLI. D. THE CILIA. | 0142 |
| | ********************************* | **** |
| <i>.</i> | THE STUDENT WILL ANALYZE THE TOTAL CAPACITY OF THE LUNGS BY IDENTIFYING THE INDIVIDUAL PARTS AND THEIR FUNCTIONS IN THE BREATHING PROCESS. %160 | 0002 |
| ` | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | THE AIR TAKEN INTO AND FORCED OUT OF THE LUNGS DURING NORMAL BREATHING IS CALLED A. SUPPLEMENTAL AIR. B. COMPLEMENTAL AIR. **C. TIDAL AIR. D. VITAL CAPACITY. | 0147 |
| | TIDAL AIR IS THE AIR A. REMAINING IN THE LUNGS AFTER A FORCIBLE EXPIRATION. B. THAT CAN BE FORCIBLY EXHALED AFTER A FULL INSPIRATION. C. THAT CAN BE FORCIBLY EXHALED AFTER A NORMAL EXPIRATION. *D. TAKEN INTO AND FORCED OUT OF THE LUNGS DURING NORMAL BREATHING. | 148 |
| | THE AIR FORCIBLY EXHALED AFTER A FULL INSPIRATION IS CALLED A. COMPLEMENTAL AIR. B. RESIDUAL AIR. *C. VITAL CAPACITY. D. TIDAL AIR. | 0149 |
| (| ONE.S TOTAL CAPACITY REFERS TO *A. THE CAPACITY OF ONE.S LUNGS. B. THE CAPACITY OF ONE.S STOMACH. C. THE AMOUNT OF AIR THAT CAN BE EXPELLED FROM THE LUNGS. D. THE AMOUNT OF BLOOD IN THE CIRCULATORY SYSTEM. | 150 |
| | VITAL CAPACITY REFERS TO THE AIR | 151 |

| C. TAKEN IN AND FORCED OUT OF THE LUNGS DURING NORMAL BREATHING. D. INHALED IN ADDITION TO ONE-S TIDAL AIR. RESIDUAL AIR IS THE AIR A. THAT CAN RE EXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. 9. INHALED IN ADDITION TO ONE-S TIDAL AIR. 9. GREATHING IN THE LUNGS AFTER THE MOST FORCIBLE EXPIRATION. D. FOOFTHLY EXHALED AFTER FULL INSPIRATION. THE VOLUME OF AIR REMAINING IN THE LUNGS AFTER THE MOST FORCIBLE FXPIRATION IS CALLED A. SUPPLEMENTAL AIR. B. VITAL CAPACITY. C. TIDAL AIR. **O. RESIDUAL AIR. SUPPLEMENTAL AIR REFERS TO THE AIR A. INHALED IN ADDITION TO ONE-S TIDAL AIR. B. TAKEN IN AND FORCED OUT OF THE LUNGS AFTER AN ORDINARY EXPIRATION. THE AIR THAT CAN BE EXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. THE AIR THAT CAN BE FXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. THE AIR THAT CAN BE FXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. THE AIR THAT CAN BE FXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. C. RESIDUAL AIR. D. TIDAL AIR. C. RESIDUAL AIR. C. THAT CAN BE INHALED IN ADDITION TO ONE-S TIDAL AIR. THE GUIANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE-S TIDAL AIR. THE GUIANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE-S TIDAL AIR. THE GUIANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE-S TIDAL AIR. C. THAL CAN BE INHALED IN ADDITION TO ONE-S TIDAL AIR. THE GUIANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE-S. OTHER CAPACITY EQUALS A. TIDAL AIR. C. TIDAL AIR. C. COMPLEMENTAL AIR. C. TIDAL AIR. C. COMPLEMENTAL AIR. THE CAPACITY OF ONE-S LUNGS IS CALLED **A. TIDAL AIR & GRESIDIAL AIR C. SUPPLEMENTAL AIR. THE CAPACITY OF ONE-S LUNGS IS CALLED **A. TOTAL CAPACITY. **A. T | | REMAINING IN THE LUNGS AFTER THE MOST FORCIBLE EXPIRATION. FORCIBLY EXHALED AFTER FULL INSPIRATION. | |
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| **C. REMAINING IN THE LUNGS AFTER THE MOST FORCIBLE EXPIRATION. O. FORCIBLY EXHALED AFTER FULL INSPIRATION. THE VOLUME OF AIR REMAINING IN THE LUNGS AFTER THE MOST FORCIBLE FXPIRATION IS CALLED A. SUPPLEMENTAL AIR. B. VITAL CAPACITY. C. TIDAL AIR. SUPPLEMENTAL AIR REFERS TO THE AIR A. INHALED IN ADDITION TO ONE'S TIDAL AIR. B. TAKEN IN AND FORCED OUT OF THE LUNGS DURING NORMAL BREATHING. **C. THAT CAN BE EXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. D. REMAINING IN THE LUNGS AFTER A FORCIBLE EXPIRATION. THE AIR THAT CAN BE FXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION IS CALLED **A. SUPPLEMENTAL AIR. C. RESIDUAL AIR. C. RESIDUAL AIR. C. THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. B. FORCIBLY EXHALED AFTER A FULL INSPIRATION. C. THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. THE CHANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. THE CALLED A. SUPPLEMENTAL AIR. C. TIDAL AIR. C. TIDAL AIR. C. TIDAL AIR. C. TIDAL AIR. VITAL CAPACITY EQUALS A. TIDAL AIR & RESIDIAL AIR R. FIDAL AIR & RESIDIAL AIR C. COMPLEMENTAL AIR. C. COMPLEMENTAL AIR. C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR. C. COMPLEMENTAL AIR. C. COMPLEMENTAL AIR & GUPPLEMENTAL AIR C. COMPLEMENTAL AIR & GUPPLEMENTAL AIR C. COMPLEMENTAL AIR & GUPPLEMENTAL AIR THE CAPACITY OF ONE'S LUNGS IS CALLED **A. TIDAL AIR. C. SUPPLEMENTAL AIR. | | EXPIRATION. | |
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| **C. THAT CAN BE EXPFLLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. D. REMAINING IN THE LUNGS AFTER A FORCIBLE EXPIRATION. THE AIR THAT CAN BE EXPELLED FROM THE LUNGS AFTER AN ORDINARY STATEMENT OF THE AIR THAT CAN BE EXPELLED FROM THE LUNGS AFTER AN ORDINARY AS SUPPLEMENTAL AIR. B. COMPLEMENTAL AIR. C. RESIDUAL AIR. D. TIDAL AIR. COMPLEMENTAL AIR REFERS TO THE AIR **A.** THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. B. FORCIBLY EXHALED AFTER A FULL INSPIRATION. C. THAT CAN BE EXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. D. THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. THE QUANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. **A.** SUPPLEMENTAL AIR. **A.** SUPPLEMENTAL AIR. **D.** COMPLEMENTAL AIR. VITAL CAPACITY EQUALS A.** TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C.** COMPLEMENTAL AIR & SUPPLEMENTAL AIR & RESIDUAL AIR THE CAPACITY OF ONE'S LUNGS IS CALLED **A.** TOTAL CAPACITY. B.** TIDAL AIR. C.** SUPPLEMENTAL AIR. **OSUPPLEMENTAL AIR. **OSUPPLEMEN | B • | TAKEN IN AND FORCED OUT OF THE LUNGS DURING NORMAL | |
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| B. COMPLEMENTAL AIR. C. RESIDUAL AIR. D. TIDAL AIR. COMPLEMENTAL AIR REFERS TO THE AIR *A. THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. B. FORCIBLY EXHALED AFTER A FULL INSPIRATION. C. THAT CAN BE EXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. D. THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. THE QUANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR IS CALLED A. SUPPLEMENTAL AIR. R. RESIDUAL AIR. C. TIDAL AIR. *D. COMPLEMENTAL AIR. **A. TIDAL AIR & RESIDUAL AIR **B. TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE'S LUNGS IS CALLED **A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | EXPI | RATION IS CALLED | 020 |
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| *A. THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. B. FORCIBLY EXHALED AFTER A FULL INSPIRATION. C. THAT CAN BE EXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. D. THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR. THE QUANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE'S TIDAL AIR IS CALLED A. SUPPLEMENTAL AIR. R. RESIDUAL AIR. *D. COMPLEMENTAL AIR. **O. COMPLEMENTAL AIR. **O. COMPLEMENTAL AIR. **O. COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE'S LUNGS IS CALLED **A. TOTAL CAPACITY. **R. TIDAL AIR. C. SUPPLEMENTAL AIR. **O. SUPPLEMENTAL AIR. | | | 0156 |
| C. THAT CAN BE EXPELLED FROM THE LUNGS AFTER AN ORDINARY EXPIRATION. D. THAT CAN BE INHALED IN ADDITION TO ONE.S TIDAL AIR. THE QUANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE.S TIDAL AIR IS CALLED. A. SUPPLEMENTAL AIR. B. RESIDUAL AIR. C. TIDAL AIR. **D. COMPLEMENTAL AIR. VITAL CAPACITY EQUALS A. TIDAL AIR & RESIDUAL AIR **R. TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE.S LUNGS IS CALLED **A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | # A • | THAT CAN BE INHALED IN ADDITION TO ONE S TIDAL AIR. | |
| D. THAT CAN BE INHALED IN ADDITION TO ONE, S TIDAL AIR. THE QUANTITY OF AIR THAT CAN BE INHALED IN ADDITION TO ONE, S TIDAL AIR IS CALLED A. SUPPLEMENTAL AIR. R. RESIDUAL AIR. C. TIDAL AIR. *D. COMPLEMENTAL AIR. VITAL CAPACITY EQUALS A. TIDAL AIR & RESIDUAL AIR *B. TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE, S LUNGS IS CALLED *A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | C • | THAT CAN BE EXPELLED FROM THE LUNGS AFTER AN ORDINARY | |
| TIDAL AIR IS CALLED A. SUPPLEMENTAL AIR. B. RESIDUAL AIR. C. TIDAL AIR. *D. COMPLEMENTAL AIR. VITAL CAPACITY EQUALS A. TIDAL AIR & RESIDUAL AIR *B. TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE.S LUNGS IS CALLED *A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | D. | | |
| A. SUPPLEMENTAL AIR. R. RESIDUAL AIR. C. TIDAL AIR. *D. COMPLEMENTAL AIR. VITAL CAPACITY EQUALS A. TIDAL AIR & RESIDUAL AIR *B. TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE.S LUNGS IS CALLED *A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | THE (| QUANTITY OF AIR THAT CAN BE INHALFD IN ADDITION TO ONE .S | 0157 |
| C. TIDAL AIR. *D. COMPLEMENTAL AIR. VITAL CAPACITY EQUALS A. TIDAL AIR & RESIDUAL AIR *B. TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE.S LUNGS IS CALLED *A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | | | |
| *D. COMPLEMENTAL AIR. VITAL CAPACITY EQUALS A. TIDAL AIR & RESIDUAL AIR *B. TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE.S LUNGS IS CALLED *A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | | | • |
| A. TIDAL AIR & RESIDUAL AIR **R. TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE.S LUNGS IS CALLED **A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | | | |
| *** TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. COMPLEMENTAL AIR & SUPPLEMENTAL AIR & RESIDUAL AIR D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE.S LUNGS IS CALLED **A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | | L CAPACITY EQUALS | 158 |
| D. SUPPLEMENTAL AIR & COMPLEMENTAL AIR THE CAPACITY OF ONE.S LUNGS IS CALLED *A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | ₩R. | TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR | |
| THE CAPACITY OF ONE S LUNGS IS CALLED *A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | D. | CUMPLEMENTAL AIR & SUPPLEMENTAL AIR & RESIDUAL AIR SUPPLEMENTAL AIR | , |
| #A. TOTAL CAPACITY. B. TIDAL AIR. C. SUPPLEMENTAL AIR. | THE | CAPACITY OF ONE S LUNGS IS CALLED | |
| C. SUPPLEMENTAL ATR. | | | 2 |
| | C • | SUPPLEMENTAL AIR. | |



| | TOTAL CAPACITY FOLIALS A. TIDAL AIR & RESIDUAL AIR | 160 |
|---|---|------|
| , | R. TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR C. SUPPLEMENTAL AIR & COMPLEMENTAL AIR *D. TIDAL AIR & SUPPLEMENTAL AIR & COMPLEMENTAL AIR & | |
| (| RESIDUAL AIR | |
| | TIDAL AIR & COMPLEMENTAL AIR & SUPPLEMENTAL AIR EQUALS A. RESIDUAL AIR B. TOTAL CAPACITY *C. VITAL CAPACITY D. METAROLISM | 0161 |
| | TIDAL AIR & SUPPLEMENTAL AIR & COMPLEMENTARY AIR & RESIDUAL AIR EQUALS A. VITAL CAPACITY **R. TOTAL CAPACITY C. METABOLISM D. BASAL METABOLISM | 0162 |
| | *************************************** | **** |
| | THE STUDENT WILL UNDERSTAND THE ROLF OF THE DIAPHRAGM IN THE RESPIRATORY PROCESS BY IDENTIFYING CHANGES WHICH OCCUR IN THE SYSTEM AS A RESULT OF THE DIAPHRAGMIC ACTION. %50 | 0003 |
| | SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 8000 |
| (| WHEN THE DIAPHRAGM CONTRACTS IT *A. ENLARGES THE CHEST CAVITY. B. REDUCES THE SIZE OF THE CHEST CAVITY. C. CAUSES INTERNAL RESPIRATION TO STOP D. FORCES AIR OUT OF THE LUNGS. | 119 |
| | WHEN THE DIAPHRAGM RELAXES THE CHEST CAVITY A. IS ENLARGED. *P. IS REDUCED IN SIZE. C. FORCES AIR INTO THE LUNGS. D. CAUSES INTERNAL RESPIRATION TO STOP. | 0120 |
| | WHEN THE DIAPHRAGM CONTRACTS, THE CHEST CAVITY ENLARGES AND THE AIR PRESSURE WITHIN THE LUNGS *A. IS REDUCED. R. IS INCREASED. C. STAYS THE SAME. | 0121 |
| | WHEN THE DIAPHRAGM RELAXES THE CHEST CAVITY BECOMES SMALLER AND THE AIR PRESSURE WITHIN THE LUNGS A. IS REDUCED. *B. IS INCREASED. C. STAYS THE SAME. | 0122 |
| • | WHEN THE AIR PRESSURE WITHIN THE LUNGS IS REDUCED A. AIR IS FORCED OUT OF THE LUNGS. **B. AIR COMES INTO THE LUNGS. C. THE RATE OF BREATHING IS INCREASED. D. THE RATE OF BREATHING IS DECREASED. | 0123 |



| THE STUDENT WILL DISTINGUISH BETWEEN THE PROCESSES INVOLVED AIR INTAKE AND FOOD INTAKE BY IDENTIFYING THE SPECIFIC PAR PERTAIN TO EACH PROCESS. #30 | TS THAT |
|---|------------------|
| SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. | 0010 |
| DURING SWALLOWING THE FPIGLOTTIS COVERS THE OPENING OF THE LARYNX SO THAT *A. NO FOOD OR WATER CAN GET INTO THE LARYNX. A. FOOD AND WATER CAN GET INTO THE BRONCHI. C. NO FOOD OR WATER CAN GET INTO THE ESOPHAGUS. D. NO FOOD OR WATER WILL COME BACK INTO THE MOUTH. | 0163 |
| WHEN FOOD *GOES DOWN THE WRONG THROAT* WHAT REALLY HAPPENS *A. THE EPIGLOTTIS DOES NOT CLOSE AND SOME FOOD PARTICLES INTO THE LARYNX. B. THE EPIGLOTTIS CLOSES AND SOME FOOD PARTICLES GO DOWN ESOPHAGUS. C. THE FOOD PARTICLES GO DOWN THE ESOPHAGUS INSTEAD OF T TRACHEA. D. THE FOOD PARTICLES ARE TOO LARGE TO FIT THROUGH THE G | GET THE HE |
| THE BANDS OF CARTILAGE IN THE TRACHEA ARE C-SHAPED %U-SHAP SO THAT *A. THE TRACHEA DOES NOT INTERFERE WITH THE PASSAGE OF FO DOWN THE ESOPHAGUS. B. LARGE PIECES OF FOOD CAN PASS THROUGH. C. FOOD WILL NOT PASS INTO THE LARYNX DURING SWALLOWING. D. THE ESOPHAGUS DOES NOT INTERFERE WITH THE PASSAGE OF DOWN THE TRACHEA. | OOD |
| *************************************** | ************ |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE TRANSFER OF FROM THE LUNGS TO THE BLOOD CELLS BY IDENTIFYING THE PARTS PROCESSES IN THIS TRANSFER. %18 | |
| SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMEN | NT. 0008 |
| WHEN CARRON DIOXIDE PASSES FROM THE BODY CELLS INTO THE CAPILLARIES ITS MOLECULES *A. MAY COMBINE WITH HEMOGLOBIN BUT MOST WILL COMBINE WIT SOME ELEMENTS IN THE PLASMA. B. COMBINE WITH HEMOGLOBIN. C. MAY COMBINE WITH FITHER RED BLOOD CELLS OR WHITE BLOCKELLS. D. COMBINE WITH BLOOD PLATELETS. | |
| ************************************** | 0178 |

ERIC Full Text Provided by ERIC

THE OPERATION OF A MODERN CAR MANUFACTURER IS VERY SIMPLE. IT CONSISTS OF A MOVING ASSEMBLY LINE IN A FACTORY WHERE PARTS FROM OTHER AREAS COME TO MEN AT DIFFERENT PLACES ALONG THE LINE.

READ THE FOLLOWING STORY. CIRCLE THE LETTER OF THE CORRECT

ANSWER FOR THE QUESTIONS AFTER THE STORY.

AS THE LINE MOVES MORE AND MORE PARTS ARE PUT ON UNTIL THE CAR IS FINISHED. EVERY SO OFTEN INSPECTORS CHECK ON HOW EVERYTHING IS GOING AND REPORT TO THE SUPERVISOR WHO CONTROLS THE ASSEMBLY. THE PARTS THAT COME TO THE LINE COME FROM OTHER FACTORIES AND ARE STORED UNTIL NEEDED. ANY USED OR DEFECTIVE PARTS AND MATERIALS ARE REMOVED BY A *REJECT* CREW OF MEN. THIS TYPE OF SYSTEM IS VFRY EFFICIENT. ONE ASSEMBLY LINE CAN PUT OUT 50 CARS A DAY WHILE IF ONLY ONE MAN HAD TO DO EVERYTHING IT WOULD TAKE A MONTH TO MAKE ONE CAR. EVERY MAN ON THE LINE HAS ONLY ONE JOB TO DO AND CAN DO THAT JOB WELL AND QUICKLY. A COMPUTER KEEPS TRACK OF EVERYTHING AND DETERMINES IF THE LINE SHOULD SPEED UP OR SLOW DOWN AND REPORTS TO THE SUPERVISOR WHO CARRIES OUT THE COMPUTERS

| ORDFRS. | |
|---|----------------------|
| THE COMPUTER WOULD BE LIKE A A. DIGESTIVE ORGAN. *B. BRAIN. C. NERVE SYSTEM. D. BLOOD STREAM. | 1935 |
| THE ASSEMBLY LINE WITH ITS MOTORS TO RUN IT WOULD A. A NERVE SYSTEM. B. A RESPIRATORY SYSTEM. *C. A CIRCULATORY SYSTEM. D. AN EXCRETORY SYSTEM. | BE LIKE 1936 |
| THE INSPECTORS WOULD BE LIKE *A. SENSORY NERVES. B. MOTOR NERVES. C. ENDOCRINE GLANDS. D. ENZYMES. | 1937 |
| THE MED ON THE ASSEMPLY LINE WOULD BE LIKE A. A SYSTERN. B. TISSUES. C. CELLS. *D. ORGANS. | 1938 |
| THE REJECT CREW WOULD BE LIKE A. A DIGESTIVE SYSTEM. #B. AN EXCRETORY SYSTEM. C. A RESPIRATORY SYSTEM. D. AN ENDOCRINE SYSTEM. | 1939 |
| THE ENTIRE FACTORY WOULD BE LIKE *A. AN ORGANISM. B. AN ORGAN. C. A SYSTEM. D. A TISSUE. | 1940 |
| THE COMPLITER. INSPECTORS. AND SUPERVISORS TOGETHER A. NERVES. B. AN ENDOCRINE SYSTEM. C. NERVE ORGANS. *D. A NERVE SYSTEM. | ARF LIKE 1941 |
| THE FACTORY, S WALLS, CEILINGS, SPRINKLER SYSTEMS A | ND ALARMS WOULD 1942 |

BE TIKE

*R. SKIN. C. MUSCLES.

A. A SKELFTON.

| THE SUPERVISOR WOULD BE LIKE | |
|--|---|
| A. A SENSORY NERVE. | 1943 |
| B. THE BRAIN. | · |
| C. THE NERVE SYSTEM. #D. A MOTOR NERVE. | |
| | |
| THE GIRDERS. CRANES. HOISTS AND BEAMS WOULD BE LIKE | 1944 |
| B. A MUSCLE SYSTEM. | |
| C. A BLOOD STREAM. | |
| D. A NERVE SYSTEM. | • |
| · · · · · · · · · · · · · · · · · · · | **** |
| CIRCULATORY SYSTEM | |
| THE STUDENT WILL APPLY HIS KNOWLEDGE OF THE CIRCULATORY SYS | STEM 0175 |
| BY RECOGNIZING ANALOGOUS RELATIONSHIPS FOR PARTS OF THE SYS | TEM. |
| | • |
| DIRECTIONS - THE ITEMS BELOW REFER TO THE WATER AND SEWAGE OF A CITY DETERMINE THE PART OR FUNCTION OF THE CIRCULATOR | SYSTEM |
| SYSTEM THAT ARE LIKE THE CITY SYSTEMS, AND MATCH THE LETTER | |
| THE CORRECT ANSWER. | , |
| THE PUMPING STATION OF THE WATER SYSTEM IS *MOST* LIKE | 1911 |
| A. AN ARTERY. | 1711 |
| B. A VEIN. C. A CAPILLARY. | ; |
| #D. A HEART. | |
| F. THE BLOOD. | |
| THE SEWER PIPE IS *MOST* LIKE | 1912 |
| A. AN ARTERY. | |
| *B. A VEIN. C. A CAPILLARY. | |
| D. A HEART. | |
| E. THE BLOOD. | |
| THE DINDING STATION AND OUTSIDE DIDES ARE MARKED AND | 1913 |
| THE PUMPING STATION AND OUTSIDE PIPES ARE *MOST* LIKE | • |
| THE PUMPING STATION AND OUTSIDE PIPES ARE *MOST* LIKE *A. THE HEART AND ARTERIES. | |
| *A. THE HEART AND ARTERIES. B. THE HEART AND VEINS. | |
| *A. THE HEART AND ARTERIES. | |
| *A. THE HEART AND ARTERIES. B. THE HEART AND VEINS. C. THE HEART AND VEINS. | |
| *A. THE HEART AND ARTERIES. B. THE HEART AND VEINS. C. THE HEART AND VEINS. | ·******** |
| *A. THE HEART AND ARTERIES. B. THE HEART AND VEINS. C. THE HEART AND VEINS. D. THE VEINS AND ARTERIES. | ·******** |
| #A。 THE HEART AND ARTERIES。 B. THE HEART AND VEINS。 C. THE HEART AND VEINS。 D. THE VEINS AND ARTERIES。 *********************************** | SYSTEM 0006 |
| *A. THE HEART AND ARTERIES. B. THE HEART AND VEINS. C. THE HEART AND VEINS. D. THE VEINS AND ARTERIES. *********************************** | SYSTEM 0006 |
| #A. THE HEART AND ARTERIES. B. THE HEART AND VEINS. C. THE HEART AND VEINS. D. THE VEINS AND ARTERIES. *********************************** | SYSTEM 0006 IE |
| *A. THE HEART AND ARTERIES. B. THE HEART AND VEINS. C. THE HEART AND VEINS. D. THE VEINS AND ARTERIES. *********************************** | SYSTEM 0006 IE |
| #A. THE HEART AND ARTERIES. B. THE HEART AND VEINS. C. THE HEART AND VEINS. D. THE VEINS AND ARTERIES. *********************************** | SYSTEM 0006 HE |

| | *** TRANSPORT MATERIALS TO ALL PARTS OF THE BODY. C. TRANSPORT ENZYMES NECESSARY FOR DIGESTION. D. PROVIDES THE INFORMATION NECESSARY FOR INTELLIGENT RESPONSES. | • |
|----|--|-------|
| 1 | THE HEART. BLOOD VESSELS AND BLOOD FORM A SYSTEM WHICH A. TRANSPORTS ENZYMES NECESSARY FOR DIGESTION. B. PROVIDES THE INFORMATION NECESSARY FOR INTELLIGENT RESPONSES. | 0187 |
| | *C. TRANSPORTS MATERIALS TO ALL PARTS OF THE BODY. D. PROVIDES TRANSPORTATION FOR NERVE IMPULSES. | |
| | THE CIRCULATORY SYSTEM IS MADE UP OF *A. BLOOD, BLOOD VESSELS AND HEART. B. AURICLES, VENTRICLES AND BLOOD. C. THE HEART, LUNGS AND ATRIA. D. BLOOD CELLS AND BLOOD VESSELS. | 188 |
| | THE HEART. BLOOD AND BLOOD VESSELS MAKE UP A. THE DIGESTIVE SYSTEM. B. THE LYMPHATIC SYSTEM. C. THE ENDOCRINE SYSTEM. *D. THE CIRCULATORY SYSTEM. | 0189 |
| | THE BLOOD VESSELS INCLUDE | 190 |
| | A. AURICLES, VENTRICLES AND CILIA. *B. ARTERIES, VEINS AND CAPILLARIES. | |
| | C. CATALYSTS, ENZYMES AND HORMONES. D. AXIONS, DENDRITES AND IMPULSES. | |
| , | ARTERIES. VEINS AND CAPILLARIES ARE | 191 |
| ι. | A. TYPES OF BLOOD CELLS. B. TYPES OF CONNECTIVE TISSUE. | • |
| | C. KINDS OF DIGESTIVE JUICES. *D. KINDS OF BLOOD VESSELS. | |
| | *************************************** | ***** |
| | THE STUDENT WILL DEMONSTRATE COMPREHENSION OF THE THREE KINDS OF BLOOD VESSELS IN THE CIRCULATORY SYSTEM BY IDENTIFYING THE | 0007 |
| | COMPOSITION, CHARACTERISTICS, LOCATIONS, AND FUNCTIONS OF EACH | |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | AN ADVANTAGE OF HAVING ARTERIES OF THE ARMS AND LEGS LOCATED DEEP IN THE MUSCLE TISSUE IS THAT THEY | 0300 |
| | A. ARE CLOSE TO THE BONES WHERE BLOOD CELLS ARE PRODUCED. *********************************** | |
| • | D. CAN CARRY INTERNAL WASTES OUT TO THE SKIN. | |
| | THE SMALL DIAMETER OF CAPILLARIES IS ADVANTAGEOUS BECAUSE IT *A. SLOWS DOWN THE MOVEMENT OF CELLS AND INCREASES THE EXCHANGE OF NUTRIENTS AND WASTES. | 0301 |
| (| R. INCREASES THE PRESSURE IN THE VEINS. C. SPEEDS UP THE MOVEMENT OF CELLS AND ALLOWS THE BLOOD TO CIRCULATE. | |
| | D. ALLOWS MORE BLOOD VESSELS TO RETURN TO THE HEART. | |

*R. TRANSPORT MATERIALS TO ALL PARTS OF THE BODY.

| THE BLUE COLOR OF VEINS IN SYSTEMIC CIRCULATION IS DUE TO A. THE BLUE BLOOD INSIDE. *B. THE DARK RED BLOOD INSIDE. C. THE BRIGHT RED BLOOD INSIDE. D. THE DECREASE IN THE BODY TEMPERATURE AT THE SURFACE. | 0302 |
|---|------|
| IF AN ARTERY WERE CUT THE BLOOD WOULD BE A. DARK RED. B. LIGHT BLUE. *C. BRIGHT RED. D. DARK BLUE. | 0303 |
| *************************************** | **** |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF VEINS AND ARTERIES IN THE CIRCULATORY SYSTEM BY NAMING A SPECIFIC VEIN OR ARTERY THAT ACCOMPLISHES A SPECIFIED FUNCTION. %8# | 0008 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE BLOOD VESSELS CARRYING BLOOD TO THE HEART ARE CALLED *A. ARTERIES. B. VEINS. | 0192 |
| C. CAPILLARIES. D. DENDRITES. | •.• |
| THE BLOOD VESSELS CARRYING BLOOD AWAY FROM THE HEART ARE CALLED A. LACTEALS. *B. VEINS. C. ARTERIFS. D. CAPILLARIES. | 0193 |
| THE BLOOD VESSEL CARRYING BLOOD FROM THE LEFT VENTRICLE IS CALLED A. THE PULMONARY ARTERY. B. THE VENA CAVA. C. THE PULMONARY VEIN. *D. THE AORTA. | 0194 |
| THE BLOOD VESSEL CARRYING BLOOD FROM THE RIGHT VENTRICLE IS CALLED A. THE AORTA. *B. THE PULMONARY ARTERY. C. THE PULMONARY VEIN. D. THE VENA CAVA. | 0195 |
| THE BLOOD VESSEL CARRYING BLOOD TO THE RIGHT AURICLE IS CALLED A. AORTA. B. PULMONARY VEINS. *C. VENA CAVA. D. PULMONARY ARTERIES. | 0196 |
| THE BLOOD VESSELS CARRYING BLOOD TO THE LEFT AURICLE ARE CALLED A. AORTA. B. VENA CAVA. C. PULMONARY ARTERIES. *D. PULMONARY VEINS. | 0197 |

VEINS CARRY BLOOD #A. TO THE HEART.

P. AWAY FROM THE HEART. C. TO THE LUNGS. ARTERIES CARRY BLOOD 206 A. TO THE HEART. *B. AWAY FROM THE HEART. .C. AWAY FROM THE LUNGS. THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF SMALLER BRANCHES OF 0009 VEINS AND ARTERIES BY IDENTIFYING THEIR NAMES AND FUNCTIONS. %20 SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 0008 THE BLOOD VESSELS THROUGH WHICH NUTRIENTS PASS TO BODY CELLS 0198 AND WASTES ARE ABSORBED FROM BODY CELLS ARE CALLED A. VFINS. *R. CAPILLARIES. C. ARTERIES. D. LACTEALS. ONE FUNCTION OF CAPILLARIES IS TO 212 A. CARRY BLOOD TO THE ARTERIES. *B. ALLOW NUTRIENTS TO PASS TO BODY CELLS AND WASTES TO BE ABSORBED. C. ALLOW WASTES TO BE ABSORBED BY THE HEART. D. CARRY BLOOD FROM THE VEINS TO THE HEART. THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF PULMONARY AND SYSTEMIC 0010 CIRCULATION BY IDENTIFYING THEIR STEPS AND FUNCTIONS IN OXYGENA-TION OF BLOOD. %200 SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 8000 THE FLOW OF BLOOD FROM THE HEART TO THE LUNGS AND BACK TO THE 0170 HEART IS CALLED #A. PULMONARY CIRCULATION. B. ORGANIC CIRCULATION. C. LYMPHATIC CIRCULATION. D. SYSTEMIC CIRCULATION. THE FLOW OF BLOOD FROM THE HEART TO ALL PARTS OF THE BODY 0171 SEXCEPT THE LUNGSH AND BACK TO THE HEART IS CALLED A. PULMONARY CIRCULATION. " R. LYMPHATIC CIRCULATION. C. ORGANIC CIRCULATION. *D. SYSTEMIC CIRCULATION. THE FLOW OF BLOOD FROM THE RIGHT VENTRICLE TO THE LUNGS AND BACK 0172 TO THE LEFT AURICLE IS CALLED A. ORGANIC CIRCULATION. B. SYSTEMIC CIRCULATION. *C. PULMONARY CIRCULATION. D. LYMPHATIC CIRCULATION.

BODY SEXCEPT THE LUNGSW AND BACK TO THE RIGHT AURICLE IS CALLED A. ORGANIC CIRCULATION. *B. SYSTEMIC CIRCULATION. C. PHILMONARY CIRCULATION. D. LYMPHATIC CIRCULATION. IN PULMONARY CIRCULATION THE FLOW OF BLOOD IS FROM 0174 A. THE LUNGS TO THE REST OF THE BODY AND BACK TO THE LUNGS. *R. THE HEART TO THE LUNGS AND BACK TO THE HEART. C. THE HEART TO ALL PARTS OF THE BODY MEXCEPT THE LUNGST AND BACK TO THE HEART. D. THE HEART TO THE LIVER AND BACK TO THE HEART. THE FUNCTION OF PULMONARY CIRCULATION IS TO CARRY 0175 A. OXYGENATED BLOOD FROM THE HEART TO THE BODY AND BRING DEOXYGENATED BLOOD BACK TO THE HEART. B. DEOXYGENATED BLOOD FROM THE HEART TO THE BODY AND BRING OXYGENATED BLOOD BACK TO THE HEART. *C. OXYGENATED BLOOD FROM THE HEART TO THE LUNGS AND BRING DEOXYGENATED BLOOD BACK TO THE HEART. D. DEOXYGENATED BLOOD FROM THE HEART TO THE LUNGS AND BRING OXYGENATED BLOOD BACK TO THE HEART. IN PULMONARY CIRCULATION THE FLOW OF BLOOD IS FROM 0177 A. THE RIGHT VENTRICLE THROUGH THE PULMONARY VEIN TO THE LUNGS AND BACK THROUGH THE PULMONARY ARTERY TO THE LEFT VENTRICLE. *B. THE RIGHT VENTRICLE THROUGH THE PULMONARY ARTERY TO THE LUNGS AND BACK THROUGH THE PULMONARY VEIN TO THE LEFT AURICLE. C. THE RIGHT VENTRICLE THROUGHT THE PULMONARY VEIN TO THE LUNGS AND BACK THROUGH THE PULMONARY ARTERY TO THE LEFT AURICLE. D. THE RIGHT AURICLE THROUGH THE PULMONARY VEIN TO THE LUNGS AND BACK THROUGH THE PULMONARY ARTERY TO THE LEFT VENTRICLE. IN SYSTEMIC CIRCULATION THE FLOW OF BLOOD IS FROM 0178 A. THE LEFT AURICLE THROUGH THE VENA CAVA TO THE BODY AND BACK THROUGH THE AORTA TO THE RIGHT VENTRICLE. B. THE LEFT VENTRICLE THROUGH THE VENA CAVA TO THE BODY AND BACK THROUGH THE AORTA TO THE RIGHT AURICLE. C. THE LEFT AURICLE THROUGH THE AORTA TO THE BODY AND BACK THROUGH THE VENA CAVA TO THE RIGHT VENTRICLE. *D. THE LEFT VENTRICLE THROUGH THE AORTA TO THE BODY AND BACK THROUGH THE VENA CAVA TO THE RIGHT AURICLE. THE FLOW OF BLOOD FROM THE HEART TO THE LEFT FOOT AND BACK TO 0179 THE HEART IS A PART OF A. PULMONARY CIRCULATION. R. ORGANIC CIRCULATION. *C. SYSTEMIC CIRCULATION. D. LYMPHATIC CIRCULATION. THE FLOW OF BLOOD FROM THE HEART TO THE RIGHT HAND AND BACK 0180 TO THE HEART IS PART OF A. LYMPHATIC CIRCULATION. *B. SYSTEMIC CIRCULATION. C. ORGANIC CIRCULATION. D. PULMONARY CIRCULATION.

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THE FLOW OF BLOOD FROM THE HEART TO THE BRAIN AND BACK TO THE HEART IS PART OF

| | B. PULMONARY CIRCULATION. C. LYMPHATIC CIRCULATION. *D. SYSTEMIC CIRCULATION. | |
|---|--|-------|
| | THE FLOW OF BLOOD FROM THE RIGHT VENTRICLE TO THE LUNGS AND BACK TO THE LEFT ATRIUM IS CALLED A. ORGANIC CIRCULATION. B. SYSTEMIC CIRCULATION. **C. PULMONARY CIRCULATION. D. LYMPHATIC CIRCULATION. | 0182 |
| | THE FLOW OF BLOOD FROM THE LEFT VENTRICLE TO ALL PARTS OF THE BODY SEXCEPT THE LUNGSO AND BACK TO THE RIGHT ATRIUM IS CALLED A. ORGANIC CIRCULATION. **B. SYSTEMIC CIRCULATION. C. PULMONARY CIRCULATION. D. LYMPHATIC CIRCULATION. | 0183 |
| | IN PULMONARY CIRCULATION THE FLOW OF BLOOD IS FROM A. THE RIGHT VENTRICLE THROUGH THE PULMONARY VEIN TO THE LUNGS AND BACK THROUGH THE PULMONARY ARTERY TO THE LEFT VENTRICLE. *B. THE RIGHT VENTRICLE THROUGH THE PULMONARY ARTERY TO THE LUNGS AND BACK THROUGH THE PULMONARY VEIN TO THE LEFT ATRIUM. | 0184 |
| | C. THE RIGHT VENTRICLE THROUGH THE PULMONARY VEIN TO THE LUNGS AND BACK THROUGH THE PULMONARY ARTERY TO THE LEFT ATRIUM. D. THE RIGHT ATRIUM THROUGH THE PULMONARY VEIN TO THE LUNGS AND BACK THROUGH THE PULMONARY ARTERY TO THE LEFT VENTRICLE. | |
| | IN SYSTEMIC CIRCULATION THE FLOW OF BLOOD IS FROM A. THE LEFT ATRIUM THROUGH THE VENA CAVA TO THE BODY AND BACK THROUGH THE AORTA TO THE RIGHT VENTRICLE. B. THE LEFT VENTRICLE THROUGH THE VENA CAVA TO THE BODY AND BACK THROUGH THE AORTA TO THE RIGHT ATRIUM. C. THE LEFT ATRIUM THROUGH THE AORTA TO THE BODY AND BACK THROUGH THE VENA CAVA TO THE RIGHT VENTRICLE. *D. THE LEFT VENTRICLE THROUGH THE AORTA TO THE BODY AND BACK THROUGH THE VENA CAVA TO THE RIGHT ATRIUM. | 0185 |
| | ************************************* | ***** |
| | THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE MAKE UP OF BLOOD BY IDENTIFYING THE NAMES, CHARACTERISTICS AND FUNCTIONS OF THE DIFFERENT PARTS OF BLOOD. %21¤ | 0011 |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | WHEN OXYGEN PASSES FROM THE AIR OF THE LUNGS THROUGH THE CAPILLARY WALLS INTO THE BLOOD, ITS MOLECULES COMBINE WITH A. THE NUCLEI IN THE WHITE BLOOD CELLS. B. THE BLOOD PLATFLETS. | 0166 |
| | C. THE FIBRINOGEN IN THE PLASMA. *D. THE HEMOGLOBIN IN THE RED BLOOD CELLS. | |
| - | THE COMBINATION OF OXYGEN AND HEMOGLOBIN IS CALLED A. OXYGENATION. *B. OXYHEMOGLOBIN. C. METABOLISM. D. HEMOGLOBINURIA. | 0167 |

ERIC

| B. IRREVERSIBLE AND DEPENDENT ON THE CONCENTRATION OF OXYGEN. B. IRREVERSIBLE AND DEPENDENT ON THE CONCENTRATION OF OXYGEN. C. REVERSIBLE AND INDEPENDENT OF THE CONCENTRATION OF OXYGEN. D. IRREVERSIBLE AND INDEPENDENT OF THE CONCENTRATION OF OXYGEN. | |
|--|------|
| THE MAJOR COMPONENTS OF BLOOD ARE *A. RED BLOOD CELLS. WHITE BLOOD CELLS. PLATELETS AND PLASMA. B. CELLS AND SERUM. | 256 |
| C. RED CORPUSCLES, WHITE CORPUSCLES AND SERUM. D. EOSINOPHILES, NEUTROPHILES AND BASOPHILES. | |
| THE MAJOR COMPONENTS OF BLOOD ARE A. EOSINOPHILES, NEUTROPHILES AND BASOPHILES. | 257 |
| B. ERYTHROCYTES, MONOCYTES AND LYMPHOCYTES. | |
| *C. LEUCOCYTES, ERYTHROCYTES, PLATELETS AND PLASMA. D. LYMPHOCYTES, MONOCYTES, PLATELETS AND PLASMA. | |
| ANOTHER NAME FOR A RED BLOOD CELL IS A. LYMPHOCYTE. | 0258 |
| R. LEUCOCYTE. | |
| <pre>C THROMBOCYTE. #D ERYTHROCYTE.</pre> | |
| ANOTHER NAME FOR A WHITE BLOOD CELL IS A. LYMPHOCYTE. | 0259 |
| *B. LEUCOCYTE. | |
| C. THROMBOCYTE. D. ERYTHROCYTE. | • |
| BLOOD IS A FLUID MADE UP OF A. PLASMA AND SALTS. | 260 |
| B. SERUM AND CELLS. C. SERUM AND PLASMA. | |
| *D. PLASMA AND CELLS. | 1 |
| THE COMPOUND THAT GIVES RED BLOOD CELLS THEIR COLOR IS CALLED A. FIBRINAGEN. | 0261 |
| B. PLASMA: *C. HEMOGLOBIN. | |
| D. LYMPH. | , |
| ONE OF THE PROTEINS IN PLASMA WHICH AIDS IN THE CLOTTING OF BLOOD IS CALLED | 0262 |
| A • ! HEMOGLOBIN • ** ** ** ** ** ** ** ** ** ** ** ** * | |
| C. LYMPH. D. CHYME. | • |
| THE FUNCTION OF THE HEMOGLOBIN IN RED BLOOD CELLS IS | 0263 |
| A. TO MAINTAIN BODY TEMPERATURE. B. TO FIGHT INFECTION. | |
| *C. TO CARRY OXYGEN. D. TO AID IN THE CLOTTING OF BLOOD. | |
| THE FUNCTION OF THE PLOOD PLATELETS IS | 0264 |
| A. TO MAINTAIN BODY TEMPERATURE. B. TO CARRY OXYGEN. | • |
| C. TO FIGHT INFECTION. | |
| *D. TO AID IN THE CLOTTING OF BLOOD. | |
| CHEERNING THE BODY AGAINST BACTEDIAL INFECTION IS THE FUNCTION OF | 0265 |

| A, THE RED BLOOD CELLS. B. THE PLATFLEIS. *C. THE WHITE BLOOD CELLS. D. THE PLASMA. | |
|---|----------|
| ANOTHER NAME FOR BLOOD PLATELETS IS A. ERYTHROCYTES. B. LYMPHOCYTES. C. LEUCOCYTES. *D. THROMBOCYTES. | 266 |
| THE BLOOD CELL THAT IS A NON-NUCLEATED BICONCAVE IS A. A LYMPHOCYTE. B. A PLATELET. *C. A RED BLOOD CELL. D. A WHITE BLOOD CELL. | 0274 |
| A RED BLOOD CELL MAY BE DESCRIBED AS A. A NUCLEATED DISC WITH A CYTOPLASM. *B. A NON-NUCLEATED BICONCAVE DISC. C. A CELL WITH A LARGE NUCLEUS AND A SMALL AMOUNT OF CYTOPLASM. D. A NON-NUCLEATED CONVEX DISC WITHOUT A CYTOPLASM. | <u> </u> |
| A WHITE BLOOD CELL MAY BE DESCRIBED AS A. A NON-NUCLEATED BICONCAVE DISC. B. A NON-NUCLEATED CONVEX DISC WITHOUT A CYTOPLASM. *C. A NUCLEATED CELL THAT IS LARGER THAN A RED BLOOD CELL. D. A NUCLEATED CELL THAT IS SMALLER THAN A RED BLOOD CELL. | 0276 |
| THE BLOOD CELL THAT IS NUCLEATED AND LARGER THAN OTHERS IS CALLED A. A RED BLOOD CELL. *B. A WHITE BLOOD CFLL. C. A PLATELET. D. A ERYTHNOCYTE. | 0277 |
| A RED BLOOD CELL A. AIDS IN FIGHTING INFECTION B. AIDS IN THE CLOTTING OF BLOOD C. TRANSPORTS ENERGY TO BODY CELLS D. KEEPS BLOOD CLOTS FROM FORMING *F. TRANSPORTS OXYGEN TO BODY CELLS | 771 |
| WHITE BLOOD CELL *A. AIDS IN FIGHTING INFECTION B. AIDS IN THE CLOTTING OF BLOOD C. TRANSPORTS ENERGY TO BODY CELLS D. KEEPS BLOOD CLOTS FROM FORMING E. TRANSPORTS OXYGEN TO BODY CELLS | 271 |
| PLATELET A. AIDS IN FIGHTING INFECTION **R. AIDS IN THE CLOTTING OF BLOOD C. TRANSPORTS ENERGY TO BODY CELLS D. KEEPS BLOOD CLOTS FROM FORMING E. TRANSPORTS OXYGEN TO BODY CELLS | 28 |
| FIRRINOGEN IS A SUBSTANCE FOUND IN A. RED BLOOD CELLS AND IT CARRIES OXYGEN. B. WHITE BLOOD CELLS AND IT HELPS FIGHT INFECTION. *C. PLASMA AND IT AIDS IN THE CLOTTING OF BLOOD. D. SERUM AND IT CAUSES BLOOD TO CLOT. | 28 |

| | PLASMA IS *A. THE STRAW COLORED LIGHID PART OF BLOOD. B. THE PART OF BLOOD THAT GIVES IT A RED COLOR. C. THE PART OF A WHITE BLOOD CELL THAT FIGHTS INFECTION. D. THE RED COLORED SOLID PART OF BLOOD. | 282 | |
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| | 环 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | *** | |
| | THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE FOUR BLOOD GROUPS BY NAMING THE BLOOD TYPES AND THEIR CHARACTERISTICS. %10 | 0012 | |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 | |
| | THE MAJOR BLOOD GROUPS %TYPES* ARE *A. A. B. O AND AB. B. A AND B. C. O AND B. D. A. B AND O. | 267 | |
| i | · | **** | |
| | THE STUDENT WILL SHOW KNOWLEDGE OF THE RHESUS %RHT FACTOR OF BLOOD BY IDENTIFYING THE TWO GROUPS AND CHARACTERISTICS OF EACH. | 0013 | |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 | |
| à | IF A PERSON HAS THE RH FACTOR PRESENT IN HIS BLOOD HE IS *A. &H POSITIVE. B. RH NEGATIVE. C. TYPE O. D. A HEMOPHILIAC. | 0268 | |
| : | IF A PERSON DOES NOT HAVE THE RH FACTOR PRESENT IN HIS BLOOD HE IS SAID TO BE A. RH POSITIVE. #B. RH NEGATIVE. C. TYPE O. D. A HEMOPHILIAC. | 0269 | |
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| | THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF ABNORMAL BLOOD CONDITIONS BY IDENTIFYING CHARACTERISTICS AND CAUSES OF DIFFERENT BLOOD DISEASES. %7 | 0014 | |
| | MATCH THE BLOOD CONDITION WITH ITS IDENTIFYING CHARACTERISTICS. | 0012 | |
| | ANFMIA A. INCREASED NUMBER OF RED BLOOD CELLS B. EXCESSIVE NUMBER OF WHITE BLOOD CELLS C. HEREDITARY-UNCONTROLLABLE BLEEDING FROM SLIGHT INJURY *D. REDUCED NUMBER OF RED BLOOD CELLS OR DECREASED HEMOGLOBIN | 270 | - > |
| ER | LEUKEMIA A. INCREASED NUMBER OF RED BLOOD CELLS B. EXCESSIVE NUMBER OF WHITE BLOOD CELLS 20 | 271 | . ' |

C. HEREDITARY-UNCONTROLLABLE BLEEDING FROM SLIGHT INJURY D. REDUCED NUMBER OF RED BLOOD CELLS OR DECKEASED HEMOGLOBIN 272 **HEMOPHILIA** A. INCREASED NUMBER OF RED BLOOD CFLLS B. EXCESSIVE NUMBER OF WHITE BLOOD CELLS *C. HEREDITARY-UNCONTROLLABLE BLEEDING FROM SLIGHT INJURY D. REDUCED NUMBER OF RED BLOOD CELLS OR DECREASED HEMOGLOBIN 288 IF A PERSON HAS ANEMIA IT MEANS THAT A. HIS WHITE BLOOD CELL COUNT IS LOW. *B. HIS RED BLOOD CELL COUNT IS LOW OR HIS HEMOGLOBIN IS LOW. C. HIS BLOOD PLATELET COUNT IS LOW. D. HIS WHITE BLOOD CFLL COUNT IS HIGH AND HIS RED BLOOD CFLL COUNT IS LOW. 0289 IF A PERSON HAS HEMOPHILIA. WHY MUST HE BE *ESPECIALLY* CAREFUL NOT TO HE SCRATCHED BY A CATO A. HE WILL HAVE AN ALLERGIC REACTION TO THE CLAWS OF THE CAT. B. HE WILL HAVE TO HAVE STITCHES. *C. HE MIGHT BLEED TO DEATH. D. HIS BODY CANNOT FIGHT THE INFECTION CAUSED BY THE CAT .S CLAWS . IF A PERSON HAS LEUKEMIA HIS BLOOD COUNT WILL SHOW THAT 0290 A. HIS BLOOD PLATELET COUNT IS VERY LOW. B. HIS RED BLOOD CELL COUNT IS HIGH. C. HE HAS NO FIBRINAGEN. *D. HIS WHITE BLOOD CELL COUNT IS VERY HIGH. 0167 THE STUDENT WILL ANALYZE THE KINDS OF IMMUNITIES TO DISEASES TO DETERMINE WHETHER THEY ARE ACTIVE IMMUNITIES, OR PASSIVE IMMUNITIES - %4 E DIRECTIONS - GIVEN THE FOLLOWING TABLE OF DISEASES AND THEIR

| PASSIVE. | | | |
|----------------|---|--|-------|
| DISEASE | IMMUN I TY | ACTIVE PASSIVE OR CAN BE DETERMINED | |
| SMALLPOX | LONGTIME IMMUNITY RESULTING FROM HAVING HAD THE DISEASE | *ACT IVE | 1858 |
| YELLOW FEVER | LIVETIME IMMUNITY RESULTING FROM HAVING HAD THE DISEASE | *ACT IVE | 1859 |
| GERMAN MEASLES | IMMUNITY RESULTING FROM GAMMA GLOBULIN WHICH IS A PROTEIN IN BLOOD PLASMA | *PASSIVE | 1860 |
| DIPHTHERIA | SHORT TIME IMMUNITY RESULTING FROM ANTIBODIES PASSED FROM | *PASSIVE | .1861 |

IMMUNITIES . DETERMINE WHETHER THE IMMUNITIES ARE ACTIVE OR

MOTHER TO NEWBORN



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| THE STUDENT WILL SHOW KNOWLEDGE OF THE TERM HEMORRHAGE BY RE- | 0016 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE LOSS OF A GREAT QUANTITY OF BLOOD FROM THE BODY IS CALLED A. A TRANSFUSION. **B. A HEMORRHAGE. C. ANEMIA. D. AN OPERATION. | 0285 |
| HEMORRHAGE IS DEFINED AS A. A DISEASE IN WHICH THE WHITE BLOOD CELL COUNT IS HIGH. B. A DISEASE IN WHICH THE RED BLOOD CELL COUNT IS HIGH. #C. THE LOSS OF A LARGE QUANTITY OF BLOOD. D. A METHOD OF INCREASING THE QUANTITY OF BLOOD. | 286 |
| 本格 我 你 你 你 你 你 你 我 我 我 我 我 我 我 我 我 我 我 我 | ***** |
| THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF PRESSURE IN THE CIRCULATORY SYSTEM BY SELECTING THE BLOOD VESSEL INVOLVED IN A GIVEN SITUATION WHERE THE PRESSURE IS DESCRIBED. %70 | 0017 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE PULSE CAN BE FELT *A. WHEREVER AN ARTERY LIES CLOSE TO THE SURFACE OF THE BODY. B. WHEREVER A VEIN LIES CLOSE TO THE SURFACE OF THE BODY. C. WHEREVER A CAPILLARY LIES CLOSE TO THE SURFACE OF THE BODY. D. ANYWHERE IN THE BODY. | 295 |
| THE MOVEMENT OF THE BLOOD THROUGH SYSTEMIC CIRCULATION IS A RESULT OF A. THE CONTRACTION OF THE LEFT AURICLE OF THE HEART. B. THE CONTRACTION OF THE RIGHT VENTRICLE. C. THE PRESSURE CREATED AS THE BLOOD GOES THROUGH THE CAPILLARIES. **D. THE CONTRACTION OF THE LEFT VENTRICLE. | 0296 |
| ONE WOULD EXPECT THE GREATEST PRESSURE IN WHICH TYPE OF BLOOD VESSELSO A. CAPILLARIES **B. ARTERIES C. VEINS D. VENTRICLES | 0297 |
| ONE WOULD EXPECT THE PRESSURE TO BE GREATEST IN WHICH BLOOD VESSELO A. VENA CAVA B. PULMONARY VEIN *C. AOR A D. PULMONARY ARTERY | n298 |
| ONF WOULD EXPECT THE LOWEST PRESSURE IN WHICH TYPE OF BLOOD VESSELSO A. ARTERIES B. VENTRICLES **C. VEINS D. CAPILLARIES 28 | 0299 |

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| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE HEART BY IDENTIFY NG THE CHARACTERISTICS AND FUNCTIONS OF ITS INDIVIDUAL PARTS. | Y- 0018 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE HUMAN HEART HAS A. 3 CHAMBERS. B. 2 CHAMBERS. *C. 4 CHAMBERS. | 227 |
| D. 1 CHAMBER. | • |
| THE UPPER CHAMBERS OF THE HEART ARE CALLED *A. AURICLES. B. VENTRICLES. C. LACTEALS. D. DORSALS. | 0223 |
| THE LOWER CHAMBERS OF THE HEART ARE CALLED A. LACTEALS. B. DORSALS. C. AURICLES. *D. VENTRICLES. | 0224 |
| THE RIGHT SIDE OF THE HEART CONTAINS | 225 |
| A. OXYGENATED BLOOD. *B. DEOXYGENATED BLOOD. C. OXALATED. BLOOD. D. COAGULATED BLOOD. | |
| THE LEFT SIDE OF THE HEART CONTAINS A. COAGULATED BLOOD. B. OXALATED BLOOD. C. DEOXYGENATED BLOOD. *D. OXYGENATED BLOOD. | 226 |
| THE LEFT AURICLE AND LEFT VENTRICLE ARE SEPARATED BY A A. SEMILUNAR VALVE. ***R. BICUSPID VALVE. C. TRICUSPID VALVE. D. SPHENCTER VALVE. | 0227 |
| THE RIGHT AURICLE AND RIGHT VENTRICLE ARE SEPARATED BY A A. SEMILUNAR VALVE. B. BICUSPID VALVE. *C. TRICUSPID VALVE. D. SPHINCTER VALVE. | 0228 |
| BLOOD FROM THE BODY ENTERS THE OF THE HEART. A. LEFT AURICLE B. LEFT VENTRICLE C. RIGHT AURICLE D. RIGHT VENTRICLE | 0229 |
| BLOOD FROM THE LUNGS ENTERS THE OF THE HEART. *A. LEFT AURICLE B. LEFT VENTRICLE | ሰድዳሰ |



| D. RIGHT AUPTICLE D. RIGHT VENTRICLE | | |
|---|---------------|-------|
| BLOOD FROM THE LEFT AURICLE ENTERS | | 231 |
| A. THE AORTA. | · | 4.7 |
| *R. THE LEFT VENTRICLE. | | |
| C. THE PULMONARY ARTERY. | | |
| D. THE RIGHT VENTRICLE. | • | |
| E. THE RIGHT AURICLE. | • | |
| BLOOD FROM THE RIGHT AURICLE ENTERS | | 222 |
| A. THE AORTA. | | 232 |
| B. THE LEFT VENTRICLE. | _ | |
| C. THE PULMONARY ARTERY. | • | |
| #D. THE RIGHT VENTRICLE. | | |
| E. THE LEFT AURICLE. | • | |
| | | |
| BLOOD FROM THE LEFT VENTRICLE ENTERS | | 0233 |
| #A. THE AORTA. | • | |
| B. THE LEFT AURICLE. | | |
| C. THE RIGHT AURICLE. D. THE RIGHT VENTRICLE. | | |
| E. THE PULMONARY ARTERY. | • | • |
| TO THE TOEMOUNKY ARTERY | • | • |
| BLOOD FROM THE RIGHT VENTRICLE ENTERS | | 0234 |
| A. THE AORTA. | | 0234 |
| R. THE RIGHT AURICLE. | | • |
| C. THE LEFT AURICLE. | | |
| D. THE LEFT VENTRICLE. | | |
| #E. THE PULMONARY ARTERY. | | , |
| DENYVGENATED BLOOD EDON THE BODY CHEESE THE | | |
| DEOXYGENATED BLOOD FROM THE BODY ENTERS THE *A. RIGHT AURICLE | OF THE HEART. | 0235 |
| - B. RIGHT VENTRICLE | | |
| C. LEFT AURICLE | | • |
| D. LEFT VENTRICLE | | |
| , | • | • |
| OXYGENATED BLOOD FROM THE LUNGS ENTERS THE | OF THE HEART. | 0236 |
| A. RIGHT AURICLE | | 0200 |
| B. RIGHT VENTRICLE | • • | |
| #C. LEFT AURICLE | | |
| D. LEFT VENTRICLE | • | |
| THE DIMER DI CON TO THE LINES | • | |
| THE PUMPS BLOOD TO THE LUNGS. A. RIGHT AURICLE | | 0237 |
| *A. RIGHT VENTRICLE | | • |
| C. LEFT AURICLE | • | |
| D. LEFT VENTRICLE | • | |
| , | | |
| THE PUMPS BLOOD TO ALL PARTS OF THE BODY | EXCEPT THE | 0238 |
| LUNGS | | 02.30 |
| A. RIGHT AURICLE | | |
| B. RIGHT VENTRICLE | | |
| CO LEFT AURICLE | | |
| #D. LEFT VENTRICLE | | |
| THE WALL OF THE LEFT VENTRICLE IS | • | |
| #A. THICKER THAN THAT OF THE RIGHT VENTRICLE. | | 0243 |
| B. THINNER THAN THAT OF THE RIGHT VENTRICLE. | • | |
| C. THE SAME THICKNESS AS THAT OF THE RIGHT VENT | TRICLE. | |
| D. THE SAME THICKNESS AS THE LEFT AURICLE. | | |

| THAT A • *R • C • | REASON WHY THE WALL OF THE LEFT VENTRICULAR IS THICKER THAN OF THE RIGHT MIGHT BE THAT IT HAS TO PUMP BLOOD TO THE LUNGS. ALL PARTS OF THE BODY. THE RIGHT VENTRICLE. THE LEFT AURICLE. | 0244 |
|-------------------|--|--------|
| | ALVES OF THE HEART ALLOW BLOOD TO FLOW | 0245 |
| | IN EITHER DIRECTION. FROM AURICLE TO AURICLE. | |
| | FROM VENTRICLE TO VENTRICLE. | • |
| | IN ONE DIRECTION ONLY. | |
| THE | CHAMBERS OF THE HEART THAT RECEIVE BLOOD FROM THE VEINS ARE | 0250 |
| CALL | | |
| | LACTEALS. DORSALS. | |
| | AURICLES. | |
| | VENTRICLES. | |
| | CHAMBERS OF THE HEART THAT PUMP BLOOD AWAY FROM THE HEART ARE | . 0251 |
| CALLI | | |
| | AURICLES. VENTRICLES. | |
| | LACTEALS. | |
| | DORSALS. | |
| LFTT! | | 1 |
| | AORTA PULMONARY ARTERY | 252 |
| | BICUSPID VALVE | |
| | TRICUSPID VALVE | |
| F. | PULMONARY VEIN | |
| ٨٠ | AORTA | 253 |
| | PULMONARY ARTERY | |
| | BICUSPID VALVE | |
| | TRICUSPID VALVE ' PULMONARY VEIN | |
| • | FOLHONARY VEIN | |
| *A. | AORTA | 254 |
| | PULMONARY ARTERY | |
| | BICUSPID VALVE | |
| | TRICUSPID VALVE | |
| t. e | PULMONARY VEIN | |
| | AORTA | 255 |
| | PULMONARY ARTERY | |
| | BICUSPID VALVE | |
| | TRICUSPID VALVE PULMONARY VIFN | |
| *C • | FULMUNART VIEW | • |
| | | 4 |



THE STUDENT WILL APPLY HIS KNOWLEDGE OF THE BLOOD VESSELS THAT CONNECT DIRECTLY WITH THE HEART BY NAMING THE BLOOD VESSEL AND ITS FUNCTION IN THE BLOOD OXYGENATION PROCESS. %1n

| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 8000 |
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| THE BLOOD VESSELS BRINGING BLOOD TO THE RIGHT AURICLE ARE CALLED #A. THE SUPERIOR AND INFERIOR VENA CAVA. B. THE PULMONARY ARTERIES. C. THE PULMONARY VEINS. D. THE CORONARY ARTERIES. | 0239 0239 |
| THE BLOOD VESSELS BRINGING BLOOD TO THE LEFT AURICLE ARE CALLED A. THE SUPERIOR AND INFERIOR VENA CAVA. B. THE PULMONARY ARTERIES. *C. THE PULMONARY VEINS. D. THE CORONARY ARTERIES. | 0240 |
| THE VESSEL THROUGH WHICH BLOOD PASSES AS IT LEAVES THE RIGHT VENTRICLE IS CALLED A. THE AORTA. B. THE PULMONARY VEIN. *C. THE PULMONARY ARTERY. D. THE CORONARY ARTERY. | 0241 |
| THE VESSEL THROUGH WHICH BLOOD PASSES AS IT LEAVES THE LEFT VENTRICLE IS CALLED *A. THE AORTA. B. THE PULMONARY VEIN. C. THE PULMONARY ARTERY. D. THE CORONARY ARTERY. | 0242 |
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| THE STUDENT WILL DISTINGUISH BETWEEN DIASTOLIC AND SYSTOLIC ACTIONS OF THE HEART BY IDENTIFYING CHARACTERISTICS OF EACH AS THEY RELATE TO THE HEARTS CONTRACTING AND RELAXING MOVEMENT. %41 | 0020 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 8000 |
| THE CONTRACTION OF THE VENTRICLES OF THE HEART IS CALLED A. VACUOLATION. *R. SYSTOLE. C. DIASTOLE. D. OVATION | 0246 |
| SYSTOLE IS TERM THAT MEANS A. THE CONTRACTION OF THE AURICLES OF THE HEART. #B. THE CONTRACTION OF THE VENTRICLES OF THE HEART. C. THE RELAXING OF THE VENTRICLES OF THE HEART. D. THE RELAXING OF THE CORONARY BLOOD VESSELS. | 247 |
| THE RELAXING OF THE VENTRICLES OF THE HEART IS CALLED A. OVATION. B. SYSTOLE. C. DIASTOLE. D. VACUOLATION. | 0248 |
| DIASTOLE IS A TERM THAT MEANS A. THE CONTRACTION OF THE AURICLES OF THE HEART. | 249 |
| B. THE CONTRACTION OF THE ADRICLES OF THE HEART. B. THE CONTRACTION OF THE VENTRICLES OF THE HEART. *C. THE RELAXING OF THE VENTRICLES OF THE HEART. D. THE RELAXING OF THE CORONARY BLOOD VESSELS. | - |
| WALL THE B | |

EXCRETORY SYSTEM

| 47 23 | | |
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| Y | THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE HUMAN EXCRETORY SYSTEM BY IDENTIFYING THE ORGANS, FORMED WASTES, AND PROCESSES INVOLVED IN WASTE REMOVAL IN THE BODY. \$200 | 0021 |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | EXCRETION IS THE PROCESS BY WHICH A. ENERGY IS RELEASED FROM FOOD. *B. WASTE MATERIALS ARE REMOVED FROM THE BODY. C. OXYGEN IS TAKEN INTO THE BODY AND CARBON DIOXIDE IS RELEASED. D. FOOD IS TRANSPORTED TO BODY CELLS. | 304 |
| | THE PROCESS BY WHICH WASTE MATERIALS ARE REMOVED FROM THE BODY IS CALLED A. DIGESTION. B. INGESTION. C. RESPIRATION. #D. EXCRETION. | 0305 |
| . ~ | THREE MAIN KINDS OF WASTES ARE REMOVED FROM THE BODY A. CARBON MONOXIDE, HYDROGEN WASTES AND WATER. B. CARBON WASTES, DIGESTED FOOD AND WATER. #C. UNDIGESTED FOOD, CARBON DIOXIDE AND NITROGEN WASTES. D. OXYGEN, CARRON MONOXIDE AND WATER. | 0 306 |
| | CARBON DIOXIDE IS PRODUCED IN THE BODY CELLS WHEN *A. FOOD IS OXIDIZED AND ENERGY RELEASED. B. OXYGEN IS CHANGED TO ENERGY. C. CARBON AND HYDROGEN COMBINE. D. OXYGEN IS PRODUCED IN THE BLOOD. | 0307 |
| | NITROGEN WASTES COME FROM *A. THE PROTEINS USED IN THE BODY CELLS. B. THE ENERGY RELEASED BY THE BODY CELLS. C. THE OXIDATION OF ENERGY IN THE BODY CELLS. D. THE COMBINING OF OXYGEN AND HYDROGEN IN THE BODY CELLS. | 308 |
| | UNDIGESTED FOOD PASSES OUT OF THE BODY FROM A. THE SKIN. *B. THE RECTUM AND ANUS. C. THE KIDNEYS. D. THE LUNGS. | 0309 |
| | CARBON DIOXIDE IS REMOVED FROM THE BODY BY A. THE SKIN. B. THE KIDNEYS. C. THE RECTUM. | 0310 |
| | *D. THE LUNGS. | ; |
| | NITROGEN WASTES ARE REMOVED FROM THE BLOOD BY *A. THE KIDNEYS AND SKIN. B. THE LUNGS AND HEART. | 0311 |
| | THE DECTION AND ADDECT THE CTIME | |



| D. THE HEART AND BLOOD. | |
|--|------|
| NITROGEN WASTES FORM A COMPOUND CALLED A. FECES. B. CARBON DIOXIDE. C. WATER. *D. UREA. | 0312 |
| UREA IS A COMPOUND FORMED FROM A. THE COMBINATION OF CARBON AND OXYGEN. *B. NITROGEN WASTES. C. THE COMBINATION OF HYDROGEN AND OXYGEN. D. UNDIGESTED FOOD. | 313 |
| THE LUNGS REMOVE WHAT KINDS OF WASTESO A. URINE *R. CARBON DIOXIDE C. UREA D. NITROGEN WASTES | 314 |
| THE RECTUM AND ANUS ALLOW FOR THE REMOVAL OF WHAT KIND OF WASTESO A. NITROGEN WASTES B. URINE C. CARBON DIOXIDE #D. UNDIGESTED FOOD | 0315 |
| THE WASTE MATERIALS REMOVED FROM THE BODY BY THE URINARY SYSTEM ARE IN THE FORM OF A. UNDIGESTED FOOD. B. CARBON DIOXIDE. *C. URINE. D. SWEAT. | n316 |
| THE UNDIGESTED FOOD ELIMINATED FROM THE LARGE INTESTINE AND RECTUM IS CALLED A. URINE. B. SWEAT. C. NITROGEN WASTES. *D. FECES. | 0317 |
| UREA AND SOME OTHER CHEMICALS ALONG WITH WATER MAKE UP *A. URINE. B. FECES. C. NITROGEN WASTES. D. BILE. | 0318 |
| THE FUNCTION OF THE LIVER IS TO A. REMOVE FROM THE BLOOD. B. REMOVE UREA FROM THE GALL BLADDER. *C. BREAK DOWN DEAD AND WEAKENED RED BLOOD CELLS AND AMINO ACIDS FROM THE BLOOD. D. BREAK DOWN NITROGEN WASTES AND REMOVE THEM FROM THE BLOOD. | 319 |
| WEAKENED AND DEAD RED BLOOD CELLS ARE REMOVED FROM THE BLOOD BY *A. THE LIVER. B. THE KIDNEYS. C. THE GALL BLADDER. D. THE PANCREAS. | 0320 |

| | THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE URINARY SYSTEM OF EXCRETION BY IDENTIFYING STRUCTURES AND THEIR FUNCTIONS THAT MAKE UP THE SYSTEM. %195 | 0022 |
|---|---|-------|
| _ | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | THE URINARY SYSTEM INCLUDES *A. THE KIDNEYS, URFTERS, BLADDER AND URETHRA. R. THE BLOOD, HEART AND BLOOD VESSELS. C. THE LUNGS, TRACHEA, PHARYNX AND LARYNX. D. THE STOMACH, SMALL INTESTINE AND LARGE INTESTINE. | 342 |
| | THE KIDNEYS, URETERS, BLADDER AND URETHRA MAKE UP WHAT IS CALLED A. THE CIRCULATORY SYSTEM. B. THE RESPIRATORY SYSTEM. *C. THE URINARY SYSTEM. D. THE REPRODUCTIVE SYSTEM. | 0,343 |
| | THE KIDENYS ARE LOCATED A. ON THE RIGHT SIDE OF THE CHEST. #B. ON EITHER SIDE OF THE SPINAL COLUMN IN THE UPPER ABDOMEN. C. IN THE LOWER ABDOMEN ON EITHER SIDE OF THE BLADDER. D. IN THE PELVIS NEXT TO THE RECTUM. | 344 |
| | THE FUNCTION OF THE KIDNEYS IS TO REMOVE A. CARBON AND OXYGEN FROM THE BLOOD. B. HYDROGEN FROM THE LUNGS. **C. DISSOLVED UREA AND OTHER CHEMICALS FROM THE BLOOD. D. DIGESTED OXYGEN AND CARBON DIOXIDE FROM THE BLOOD. | 0345 |
| (| REMOVING DISSOLVED THEA AND OTHER WASTES FROM THE BLOOD IS A FUNCTION OF A. THE LUNGS. B. THE LIVER. **C. THE KIDNEYS. D. THE PANCREAS. | 0346 |
| | THE CONNECT %SI THE KIDNEYS AND THE BLADDER. A. URETHRA *B. URETERS C. NEPHRONS D. PYRAMIDS | 0347 |
| | THE URETERS CONNECT A. THE STOMACH AND PANCREAS. B. THE LIVER AND STOMACH. C. THE NEPHRONS AND PYRAMIDS. #D. THE KIDNEYS AND BLADDER. | 348 |
| • | THE TUBES THAT CARRY URINE FROM THE KIDNEYS TO THE BLADDER ARE CALLED A. URETHRA. B. NEPHRON. **C. URETERS. D. PYRAMIDS. | 0349 |
| 1 | THE BLADDER IS LOCATED A. IN THE CHEST. B. NEXT TO THE STOMACH. C. NEXT TO THE KIDNEYS. | 350 |



| #D. IN THE PELVIC AREA. |
|---|
| THE URINARY BLADDER IS A. A MUSCULAR SAC WHERE BILE IS STORED. B. THE PART OF THE KIDNEY WHERE URINE COLLECTS. *C. A MUSCULAR SAC WHERE URINE IS STORED. D. THE PLACE WHERE URINE IS REMOVED FROM THE BLOOD. |
| THE URETHRA IS A TUBE THAT A. CONNECTS THE KIDNEYS AND THE BLADDER. B. CONNECTS THE LIVER AND GALL BLADDER. C. GOES FROM THE PANCREAS TO THE FIRST PART OF THE SMALL INTESTINE. *D. GOES FROM THE BLADDER TO THE OUTSIDE OF THE BODY. |
| THE FUNCTION OF THE URETHRA IS TO ALLOW A. WATER TO BE REABSORBED FROM THE TUBULE. B. WASTES TO BE REMOVED FROM THE BLOOD. *C. URINE TO PASS OUT OF THE BODY FROM THE BLADDER. D. URINE TO PASS FROM THE KIDNEYS TO THE BLADDER. 354 |
| 355 |
| 356 |
| |
| 357 |
| 350 |

| DIRECTION IDENTIFY THE PART BEING LOCATED IN THE DIAGR | RAM. |
|--|---------------------------------------|
| *A . BOWMAN . S CAPSULF B . CAPILLARY C . TUBULE D . GLOMERULUS E . LISTER . S CUP | 354 |
| A. BOWMAN.S CAPSULE B. CAPILLARY C. TUBULE *D. GLOMERULUS E. LISTER.S CUP | 359 |
| A · BOWMAN · S CAPSULE B · CAPILLARY *C · TUBULE D · GLOMERULUS E · LISTER · S CUP | 356 |
| A • URETHRA B • URETER C • NEPHRON *D • KIDNEY E • BLADDER | 357 |
| A. URFTHRA #B. URETER C. NEPHRON D. KIDNEY E. BLADDER | 3 58 |
| A • URETHRA B • URETER C • NEPHRON D • KIDNEY #F • BLADDER | 3 50 |
| *A. URETHRA B. URETER C. NEPHRON D. KIDNEY D. BLADDER | . 3 6(|
| * | · · · · · · · · · · · · · · · · · · · |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE SKIN.S ROLEXCRETION BY IDENTIFYING THE COMPOSITION AND FUNCTIONS OF DIFFERENT LAYERS OF SKIN. %21. | LE IN 002 |

SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT.

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THE TWO LAYERS OF THE SKIN ARE

A. THE AURICLE AND VENTRICLE.
B. THE NEPHRON AND PYRAMIDS.

() *C. THE DERMIS AND FPIDERMIS.

D. THE URETER AND URETHRA.

THE OUTER LAYER OF THE SKIN IS CALLED

A. THE DERMIS.

| THE CORTEX. D. THE MEDULLA. | | |
|--|------|---------|
| THE FPIDERMIS IS THE NAME OF *A. THE OUTER LAYER OF SKIN. B. THE OUTER PART OF THE NEPHRON. C. THE INNER LAYER OF SKIN. D. THE INNER PART OF THE NEPHRON. | 323 | |
| THE INNER LAYER OF THE SKIN IS CALLED *A. THE DERMIS. B. THE FPIDERMIS. C. THE CORTEX. D. THE MEDULLA. | 0324 | |
| THE DERMIS IS THE NAME OF A. THE OUTER LAYER OF SKIN. B. THE OUTER PART OF THE NEPHRON. *C. THE INNER LAYER OF SKIN. D. THE INNER PART OF THE NEPHRON. | 325 | |
| THE FPIDERMIS IS MADE UP OF A. NERVES AND BLOOD VESSELS. *B. EPITHELIAL CELLS. C. OIL GLANDS. D. HAIR ROOTS. | 326 | |
| FPITHFLIAL CFLLS ARE THE BASIS FOR A. THE DERMIS. *B. THE EPIDERMIS. C. THE SWEAT GLANDS. D. THE OIL GLANDS. | 327 | er rang |
| THE DERMIS CONTAINS A. EPITHELIAL CELLS. **B. SWFAT GLANDS, HAIR ROOTS, NERVES, OIL GLANDS. C. ELODEA CELLS. D. SALIVARY GLANDS, MUCUS, DUCTS, DIGESTIVE JUICES AND BLOOD CELLS. | 328 | |
| SWEAT GLANDS. HAIR ROOTS AND NERVES ARE FOUND IN #A. THE DERMIS. R. THE EPIDERMIS. C. THE CORTEX. D. THE PYRAMIDS. | 0329 | |
| OIL GLANDS AND BLOOD VESSELS ARE FOUND IN A. THE EPIDERMIS. **B. THE DERMIS. C. THE PYRAMIDS. D. THE COPTEX. | 0330 | |
| THE PORES OF THE SKIN ARE THE OPENINGS OF A. THE OIL GLANDS. #B. THE SWEAT GLANDS. C. THE HAIR ROOTS. D. THE LYMPH GLANDS. | 0331 | |
| FOLLICLE IS THE OPENING FOR THE CAPILLARIES. 38 | 332 | |

| B. THE SWEAT GLANDS AND NERVES. POLITIC MATERIAL OLAMOS. D. THE LLYMPH GLANDS. | |
|---|------|
| THE OPENINGS IN THE SKIN FOR HAIR AND OIL GLANDS ARE CALLED A. PORES. *********************************** | 0333 |
| THE OPENING OF THE SWEAT GLAND IS CALLED A. A DUCT. B. A FOLLICLE. *C. A PORE. D. A GLOTTIS. | 0334 |
| THE PARTS OF THE DERMIS THAT HELP TO REGULATE THE BODY TEMPER-ATURE ARE *A. SWEAT GLANDS AND BLOOD VESSELS. B. OIL GLANDS AND NERVES. C. HAIR ROOTS AND NERVES. D. EPIDERMIS - PORES. | 0335 |
| THE SKIN IS CONSIDERED A SENSE ORGAN BECAUSE OF THE PRESENCE OF IN THE DERMIS. A. HAIR ROOTS B. BLOOD VESSELS **C. NERVES D. OIL GLANDS | 0336 |
| THE SKIN IS A PART OF THE FXCRETORY SYSTEM BECAUSE OF THE RESENCE OF IN THE DERMIS. A. OIL GLANDS **B. SWEAT GLANDS C. BLOOD VESSELS D. HAIR ROOTS | 0337 |
| THE PRESENCE OF NERVES IN THE DERMIS ACCOUNTS FOR THE SKIN A. ASSISTING IN EXCRETION. B. REGULATING BODY TEMPERATURE. *C. ACTING AS THE SENSE ORGAN. D. PREVENTING THE LOSS OF WATER. | 0338 |
| THE SWEAT GLANDS OF THE SKIN A. PREVENT THE LOSS OF WATER FROM THE BODY. B. PROTECT THE BODY AGAINST BACTERIAL INVASION. C. ACT AS A SENSE ORGAN. *D. ASSIST IN EXCRETION. | 339 |
| THE SWEAT GLANDS AND BLOOD VESSELS *A. HELP TO REGULATE BODY TEMPERATURES. B. HELP TO PROTECT THE BODY AGAINST BACTERIAL INVASION. C. ACT AS A SENSE ORGAN. D. PREVENT THE LOSS OF WATER FROM THE BODY. | 340 |
| THE SWEAT GLANDS ARE RESPONSIBLE FOR THE ELIMINATION OF *A. SOME NITROGEN WASTES AND WATER. B. URINE. C. UNDIGESTED FOOD. D. CARBON DIOXIDE. | 0341 |

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| THE STUDENT WILL UNDERSTAND THE ROLE OF THE KIDNEY IN EXCRETION BY IDENTIFYING ITS COMPONENT PARTS AND THEIR FUNCTIONS. %15m | 0024 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE TINY FILTERS INSIDE EACH KIDNEY ARE CALLED A. ALVEOLI. *B. NEPHRONS. C. PYRAMIDS. D. COLLECTING CUPS. | 0361 |
| NEPHRONS ARE *A. TINY FILTERS WITHIN THE KIDNEY. B. AIR SACS IN THE LUNGS. C. COLLECTING CUPS WITHIN THE KIDNEY. D. TUBES CONNECTING THE KIDNEYS AND BLADDER. | 362 |
| THE GLOBE LIKE STRUCTURE AT THE BEGINNING OF THE NEPHRON IS CALLED A. KOCH.S BACILLUS. B. LISTER.S CUP. *C. BOWMAN.S CAPSULF. D. HENLE.S LOOP. | 0363 |
| BOWMAN.S CAPSULE IS A. THE STRUCTURE AT THE TOP OF EACH KIDNEY. (B. ANOTHER NAME FOR THE NEPHRON. *C. THE GLOBE LIKE PART OF THE NEPHRON. D. A PART OF THE URETHRA. | 364 |
| THE TUFT OF CAPILLARIES INSIDE BOWMAN'S CAPSULE IS CALLED A. THE URETHRA. B. THE NEPHRON. C. THE URETER. *D. THE GLOMERULUS. | 0365 |
| THE GLOMERULUS IS A. THE TUBE CONNECTING THE BLADDER AND THE OUTSIDE OF THE BODY. B. THE TUBE CONNECTING THE NEPHRON AND THE KIDNEY. *C. THE TUET OF CAPILLARIES INSIDE BOWMAN.S CAPSULE. D. THE GLOBE LIKE PART OF THE NEPHRON. | 366 |
| THE TUBULE OF THE NEPHRON IS SURROUNDED BY A. ALVEOLI. B. BACTLLI. *C. CAPILLARIES. D. DUCTS. | 0367 |
| THE FUNCTION OF THE CAPILLARIES AROUND THE TUBULE OF THE NEPHRON IS *A. TO REABSORB WATER. B. TO REMOVE MORE WASTES. C. TO REGULATE THE FLOW OF BLOOD THROUGH THE TUBULE. D. TO ALLOW FOR THE EXCHANGE OF OXYGEN AND CARBON DIOXIDE. | 0368 |
| THE FUNCTION OF BOWMAN.S CAPSULE IS TO ALLOW FOR A. THE EXCHANGE OF OXYGEN AND CARBON DIOXIDE. *B. WATER AND WASTES TO BE ABSORBED FROM THE BLOOD. 34.40 | 0369 |
| - 54 /18 b | |

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by THE PASSAGE OF PLUOD THE THE TUBULE. THE TUBULES OF THE NEPHRON EMPTY INTO 370 A. THE GLOMERULUS. B. THE URETHRA. C. THE BASE OF THE BLADDER. *D. THE PELVIS OF THE KIDNEY. THE CENTER PART OF THE KIDNEY INTO WHICH THE TUBULES EMPTY IS 0371 CALLED A. THE URETHRA. *R. THE PELVIS. C. THE GLOMERULUS. D. THE CORTEX. THE VEIN CARRYING BLOOD FROM THE KIDNEY IS 0372 A. THE HEPATIC PORTAL VIEN. B. THE SUPERIOR VENA CAVA. C. THE PULMONARY VEIN. *D. THE RENAL VEIN. THE RENAL VEIN CARRIES BLOOD FROM 373 A. THE HEART. R. THE LIVER. *C. THE KIDNEY. D. THE PANCREAS. THE RENAL ARTERY CARRIES BLOOD TO 374 A. THE HEART. B. THE PANCREAS. *C. THE KIDNEY. D. THE LIVER. THE ARTERY THAT CARRIES BLOOD TO THE KIDNEY IS CALLED 0375 *A. THE RENAL ARTERY. B. THE AORTA. C. THE PULMONARY ARTERY. D. THE INFERIOR VENA CAVA. THE STUDENT WILL ANALYZE THE FUNCTIONS OF PARTS OF BODY SYSTEMS 0025 BY SELECTING ANALOGOUS FUNCTIONAL RELATIONSHIPS BETWEEN PARTS OF DIFFERENT BODY SYSTEMS. %198 SFLECT THE WORD THAT BEST FILLS THE BLANK. 14 THE FSOPHAGUS IS TO THE DIGESTIVE SYSTEM AS THE IS TO THE 0376 RESPIRATORY SYSTEM. A. ALVEOLUS B. PHARYNX *C. TRACHEA D. GLOTTIS THE TRACHEA IS TO THE RESPIRATORY SYSTEM AS THE IS TO 0377 THE DIGESTIVE SYSTEM. A. PHARYNX

C. THE RELEASE OF HEAT FROM THE BODY.

*R. ESOPHAGUS
C. VILLUS

D. GLOTTIS

| | D. GLOTTIS | | | |
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| | THE KIDNEYS ARE TO THE URINARY SYSTEM AS THE RESPIRATORY SYSTEM. A. TRACHEA B. CILIA C. VILLI *D. LUNGS | ARE TO THE | 0378 | () |
| | THE LUNGS ARE TO THE RESPIRATORY SYSTEM AS THE THE URINARY SYSTEM. A. URETERS **B. KIDNEYS C. VILLI D. CILIA | ARE TO | 0379 | |
| | THE RECTUM IS TO THE DIGESTIVE SYSTEM AS THE URINARY SYSTEM. A. NEPHRON B. URFTER C. KIDNEY *D. BLADDER | IS TO THE | 0380 | |
| | THE BLADDER IS TO THE URINARY SYSTEM AS THE DIGESTIVE SYSTEM. *A. RECTUM B. GALL BLADDER C. LIVER D. SMALL INTESTINE | IS TO THE | 0381 | |
| | THE VILLI ARE TO THE SMALL INTESTINE AS THE LUNGS. *A. ALVEOLI B. TRACHEA C. BRONCHI D. CILIA | ARE TO THE | 0382 |) |
| | THE ALVEOLI ARE TO THE LUNGS AS THE INTESTINE. A. INTESTINAL GLANDS B. GASTRIC GLANDS **C. VILLI D. CILIA | RE TO THE SMALL | 0383 | |
| | THE KIDNEY IS TO THE URINARY SYSTEM AS THE SKIN. A. FOLLICLE B. CAPILLARY C. OIL GLAND *D. SWEAT GLAND | IS TO THE | 0384 | |
| | *A. KIDNEY B. URETER C. BLADDER | IS TO THE URINARY | n385 | |
| | D. URETHRA THE PULMONARY ARTERY IS TO THE LUNG AS THE KIDNEY. A. CELIAC ARTERY | IS TO THE | 0386 | _) |
| ERIC | 36 42 | · . | | |
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| | B. CAPOTID ARTERY C. AURTA | | • |
|--------|--|-----------------|--------|
| _ | *D. RENAL ARTERY THE RENAL ARTERY IS TO THE KIDNEY AS THE | IS TO THE LUNG. | 0387 |
| | A. AORTA **R. PULMONARY ARTERY C. CAROYID ARTERY D. CELIAC ARTERY | | |
| | THE PULMONARY VEIN IS TO THE LUNG AS THE KIDNEY. A. SUPERIOR VENA CAVA B. FEMORAL VEIN **C. RENAL VEIN D. HEPATIC PORTAL VEIN | IS TO THE | 0388 |
| | THE RENAL VEIN IS TO THE KIDNEY AS THE A. SUPERIOR VENA CAVA **R. PULMONARY VEIN C. HEPATIC PORTAL VEIN D. FEMORAL VEIN | IS TO THE LUNG. | 0389 |
| | THE DIAPHRAGM IS TO THE RESPIRATORY SYSTEM AS THE CIRCULATORY SYSTEM. *A. HEART B. BLOOD C. VEIN D. CAPILLARY | THE IS TO | 0390 |
| | THE HEART IS TO THE CIRCULATORY SYSTEM AS THE RESPIRATORY SYSTEM. A. ALVEOLUS B. BRONCHIAL TUBE C. CILIA *D. DIAPHRAGM | IS TO THE | 0391 |
| | *************************************** | ** | **** |
| | DIGESTIVE SYSTEM | • | |
| • | THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE IDENTIFYING THE LOCATIONS AND FUNCTIONS FOR PASSEN | | 0026 |
| | SFLECT THE WORD OR PHRASE THAT BEST COMPLETES | THE STATEMENT. | - 0008 |
| | TAKING FOOD INTO THE BODY IS CALLED A. DIGESTION. *B. INGESTION. C. DEGLUTITION. D. MASTICATION. E. PERISTALSIS. | | 393 |
| | INGESTION MEANS #A. TAKING FOOD INTO THE BODY. B. CHEWING FOOD. C. MUSCULAR CONTRACTIONS OF THE FOOD TUBE. D. PREPARATION OF FOOD FOR USE IN THE BODY. | | 394 |
| Y ENIC | 37 | • | |

³⁷ **43**

| 8. SWALLOVING. | | • |
|--|-----|------|
| THE ACT OF CHEWING IS CALLED | | 394 |
| MASTICATION. | • | |
| B. DIGESTION. | | |
| C. DEGLUTITION. | | ~ - |
| D. INGESTION. | | |
| F. PERISTALSIS. | | |
| MASTICATION MEANS | | 395 |
| A. TAKING FOOD INTO THE BODY. | | 375 |
| *B. CHEWING FOOD. | • | |
| C. PREPARATION OF FOOD FOR USE IN THE BODY. | | |
| D. SWALLOWING. | • | |
| F. MUSCULAR CONTRACTIONS OF THE FOOD TUBE. | | |
| THE ACT OF SWALLOWING IS CALLED | | 207 |
| A. DIGESTION. | | 397 |
| B. PERISTALSIS. | | |
| *C. DEGLUTITION. | | |
| D. MASTICATION. | | |
| F. INGESTION. | • | |
| DEGLUTITION MEANS | • | 398 |
| A. MUSCULAR CONTRACTIONS OF THE FOOD TUBE. | | 370 |
| B. TAKING FOOD INTO THE BODY . | | |
| C. PREPARATION OF FOOD FOR USE IN THE BODY. | | |
| *D. SWALLOWING. | | |
| E. CHEWING FOOD. | | |
| PREPARING FOOD FOR USE IN THE BODY IS CALLED | | 0395 |
| 1. PERISTALSIS. | | 0373 |
| *B. DIGESTION. | | |
| C. DEGLUTITION. | | |
| D. MASTICATION. | | |
| F. INGESTION. | | |
| OIGESTION IS DEFINED AS | | 400 |
| #A. PREPARATION OF FOOD FOR USE IN THE BODY. | | 400 |
| B. TAKING FOOD INTO THE BODY. | | |
| C. CHEWING FOOD. | | |
| D. SWALLOWING. | .• | |
| E. MUSCULAR CONTRACTIONS OF THE FOOD TUBE. | · | |
| PERISTALSIS MEANS | | 401 |
| As SWALLOWING. | | |
| R. CHEWING FOOD. | | |
| *C. MUSCULAR CONTRACTIONS OF THE FOOD TUBE. | ٠. | |
| D. TAKING FOOD INTO THE BODY. | . 1 | |
| F. PREPARATION OF FOOD FOR USE IN THE BODY. | • | |
| THE WAVE OF MUSCULAR CONTRACTIONS THAT PUSH FOOD THROUGH THE | | 0402 |
| FOOD TUBE IS CALLED | | |
| A. INGESTION. | | |
| B. DIGESTION. | • | |
| C. MASTICATION. | • | |
| *D. PERISTALSIS. | | - |
| F. DEGLUTITION. | | |
| FRICE REMOVAL OF SOLID WASTES FROM THE BODY IS CALLED | | 0403 |
| A. MASTICATION. | | |

| | P. DEGLUTITION. *C. DEFECATION. D. INGESTION. | u , |
|----|--|----------------|
| 1. | DEFECATION MEANS A. THE ACT OF CHEWING FOOD. B. THE ACT OF SWALLOWING FOOD. *C. THE REMOVAL OF SOLID WASTES FROM THE BODY. D. THE PREPARATION OF FOOD FOR USE IN THE BODY. | 404 |
| | THERE ARE TWO CHANGES THAT OCCUR DURING DIGESTION A. MUSCULAR AND MECHANICAL. B. CHEMICAL AND HEAT. *C. MECHANICAL AND CHEMICAL. D. MUSCULAR AND HEAT. | 0405 |
| | THE PHASE OF DIGESTION THAT INVOLVES CHEWING, CHURNING AND MIXING OF FOOD IS CALLED #A. MECHANICAL. B. CHEMICAL. C. HEAT. D. ENERGY. | 0406 |
| | THE PHASE OF DIGESTION THAT IS ACCOMPLISHED BY DIGESTIVE ENZYMES IS CALLED A. MUSCULAR. B. MECHANICAL. C. HEAT. *D. CHEMICAL. | 0407 |
| (| THE TONGUE AND TEETH ARE INVOLVED IN WHICH PHASE OF DIGESTIONO A. CHEMICAL B. MUSCULAR *C. MECHANICAL D. ENERGY | 0408 |
| | DIGESTION BEGINS IN A. THE STOMACH. B. THE ESOPHAGUS. *C. THE MOUTH. D. THE SMALL INTESTINE. | 409 |
| | PROTEIN DIGESTION BEGINS IN A. THE MOUTH. B. THE SMALL INTESTINE. C. THE ESOPHAGUS. *D. THE STOMACH. | 410 |
| | THE DIGESTION OF STARCH BEGINS IN A. THE STOMACH. B. THE SMALL INTESTINE. *C. THE MOUTH. D. THE LARGE INTESTINE. | . 411 |
| | THE DIGESTION OF FAT BEGINS IN A. THE STOMACH. *B. THE SMALL INTESTINE. C. THE MOUTH. D. THE LARGE INTESTINE. | 412 |

³⁹ 45

413

THE THREF TYPES OF FOODS ARE

| A. STARCHES, SUGARS AND FATS. B. FATS, CARBOHYDRATES AND SUGARS. *C. CARROHYDRATES, FATS AND PROTEINS. D. PROTEINS, CARBOHYDRATES AND STARCHES. | |
|--|--------------------|
| IN DIGESTION. CARBOHYDRATES ARE CHANGED TO A. GLYCERIN AND FATTY ACIDS. **B. GLUCOSE. C. AMINO ACIDS. | 0414 |
| IN DIGESTION. PROTEINS ARE CHANGED TO A. GLYCERIN AND FATTY ACIDS. ************************************ | 0415 |
| IN DIGESTION, FATS ARE CHANGED TO *A. GLYCERIN AND FATTY ACIDS. R. AMINO ACIDS. C. GLUCOSF. | 416 |
| AN ENZYME IS A SUBSTANCE IN THE DIGESTIVE SYSTEM A. IS PRODUCED BY ENDOCRINE GLANDS AND HELPS C ACTIVITIES. | |
| **B. REMAINS UNCHANGED BUT SPEEDS UP A CHEMICAL IT OCCUR AT A LOWER TEMPERATURE. C. IS USED UP IN THE PROCESS OF BREAKING DOWN SOLUBLE FORMS. D. IS PRODUCED BY THE SALIVARY GLANDS AND BEGIOF FOOD. | FATS INTO |
| WITHIN THE FOOD TUBE THE GLANDS THAT PRODUCE A LEFLUID ARE CALLED A. SALIVARY GLANDS. **B. MUCUS GLANDS. C. GASTRIC GLANDS. D. DIGESTIVE GLANDS. | UBRICATING 0418 |
| THE THREE TYPES OF SALIVARY GLANDS ARE A. MUCUS, THYROID AND GASTRIC. ***R. MAXILLARY, PAROTID AND SUBLINGUAL. C. FEMORAL, ADENOID AND FUSTACHIAN. D. PAROTID. CAROTID AND TEMPORAL. | 419 |
| THE ENZYME PRESENT IN SALIVA THAT REGINS TO CHAN SUGAR IS A. PEPSIN. B. RENNIN. C. TRYPSIN. *D. PTYALIN. | IGE STAPCH TO 0420 |
| THE SECRETIONS OF THE SALIVARY GLANDS EMPTY INTO *A. THE MOUTH. B. THE ESOPHAGUS. C. THE STOMACH. D. THE SMALL INTESTINE. | 0421 |
| THE DIGESTIVE JUICE FOUND IN THE MOUTH IS CALLED *A. SALIVA. R. RILE. | 0422 |
| ERIC D. GASTRIC JUICE. | |

| | THE DIGESTIVE JUICE PRODUCED BY THE SALIVARY GLANDS IS | | 0423 |
|------------|---|---|------|
| ð | A. GASTRIC JUICE. B. BILE. C. HYDROCHLORIC ACID. *D. SALIVA. | | |
| | AN INFECTION OF THE PAROTID GLANDS. CAUSING SWELLING AND IRRITATION IS THE DISEASE CALLED A. CHICKEN POX. B. LARYNGITIS. C. PHARANGITIS. *D. MUMPS. | | 0424 |
| | THE PRINCIPAL ENZYME PRESENT IN GASTRIC JUICE WHICH ACTS ON PROTEIN IS A. TRYPSIN. B. PTYALIN. *C. PEPSIN. D. AMYLASE. | | 0425 |
| | THE DIGESTIVE GLANDS FOUND IN THE STOMACH ARE CALLED A. THE SALIVARY GLANDS. B. THE PAROTID GLANDS. C. THE PANCREATIC GLANDS. *D. THE GASTRIC GLANDS. | | 0426 |
| | THE THREE KINDS OF SECRETIONS PRODUCED BY GASTRIC GLANDS ARE A. SALIVA, BILE AND MUCUS. *B. MUCUS, HYDROCHLORIC ACID AND ENZYMES. C. ENZYMES, MUCUS AND BILE. D. HYDROCHLORIC ACID, MUCUS AND BILE. | | 0427 |
| | GASTRIC JUICE CONTAINS WHAT SUBSTANCE THAT IS NOT AN ENZYMED A. PTALIN *B. HYDROCHLORIC ACID C. BILE D. PEPSIN | · | 0428 |
| | THE DIGESTIVE JUICE FOUND IN THE STOMACH IS CALLED A. SALIVA. B. INTESTINAL JUICE. *C. GASTRIC JUICE. D. BILE. | | 0429 |
| | THE LARGEST GLAND IN THE BODY IS A. THE BRAIN. *B. THE LIVER. C. THE KIDNEY. D. THE THYROID. | | 430 |
| <i>5</i> ~ | THE DIGESTIVE JUICE SECRETED BY THE LIVER IS *A. BILE. B. SALIVA. C. MUCUS. D. HYDROCHLORIC ACID. | | 0431 |
| | THE FUNCTION OF THE GALL BLADDER IS A. TO PRODUCE GALL. *R. TO STORE BILE. C. TO PRODUCE MUCUS. | ing segment of the s | 432 |

ERIC

Full Text Provided by ERIC

| D. TO STORE HYDROCHLORIC A | c1Da | |
|---|--------------------------------------|------|
| WHY IS BILE NOT CONSIDERED A | | 433 |
| **A. IT DOES NOT CAUSE A CHEE | | - |
| C. IT CAUSES A CHEMICAL CH | ANGE. | |
| D. IT IS NOT USED IN THE D | IGESTION OF FOOD. | |
| | IN THE SMALL INTESTINE IS CALLED | 0434 |
| *A. INTESTINAL FLUID. B. SALIVA. | • | |
| C. GASTRIC FLUID. | | |
| D. BILE. | • | |
| THE DIGESTIVE GLANDS LOCATED | IN THE LINING OF THE SMALL INTESTINE | 0435 |
| ARF CALLED A. GASTRIC GLANDS. | | • |
| R. SALIVARY GLANDS. | | |
| *C. INTESTINAL GLANDS. D. PANCREATIC GLANDS. | | |
| | | |
| THE ENZYMES PRESENT IN PANCE A. STARCHES, SUGARS AND FA | REATIC JUICE ACT ON | 0436 |
| B. PROTEINS AND FATS. | | |
| *C. PROTEINS, FATS AND STAR D. PROTEINS AND STARCHES. | RCHES. | |
| | | |
| THE ALIMENTARY CANAL IS ALSO A. THE PHARYNX. | O CALLED | 437 |
| B. THE ESOPHAGUS. | · | |
| *C. THE FOOD TURE. D. THE TRACHEA. | | |
| | | 438 |
| THE ALIMENTARY CANAL IS THE A. CONNECTS THE LIVER AND | | 420 |
| *B. GOES FROM THE MOUTH TO | THE ANUS. | |
| C. CONNECTS THE INNER FAR D. GOES FROM THE LARYNX TO | | |
| | | 0420 |
| THE TUBE THAT GOES FROM THE | MOUTH TO THE ANUS IS CALLED | 0439 |
| B. THE BILE DUCT. | | |
| *C. THE ALIMENTARY CANAL. D. THE EUSTACHIAN TUBE. | | |
| | • | |
| IDENTIFY THE STRUCTURE THAT | IS THE SAME AS THE GIVEN STRUCTURE. | |
| | | 440 |
| PHARYNX A. FOOD TURF | | |
| B. GULLET | | |
| <pre>c LARGE INTESTINE *D THROAT</pre> | | |
| E. SMALL INTESTINE | | |
| FSOPHAGUS | | 441 |
| A. FOOD TURE *R. GULLET | | , |
| C. LARGE INTESTINE | | |
| D. THROAT F. SMALL INTESTINE | 40 | • • |
| C. SMALL INICSTING | 48 | |

| | COLON A. FOOD THRE B. GULLET | 447 |
|----------|--|------------|
| 1 | *C. LARGE INTESTINE D. THROAT E. SMALL INTESTINE | |
| | ALIMENTARY CANAL *A. FOOD TUBE B. GULLET C. LARGE INTESTINE D. THROAT E. SMALL INTESTINE | 443 |
| | THE FOOD TUBE CAN ALSO BE CALLED A. THE PHARYNX. **R. THE ALIMENTARY CANAL. C. THE ESOPHAGUS. D. THE TRACHEA. | 444 |
| | THE CHIEF FUNCTION OF THE MOUTH IS *A. PREPARE FOOD FOR DIGESTION. B. ALLOW FOR SPEECH. C. ALLOW FOR BREATHING. D. PROVIDE A PLACE FOR THE TONGUE. | 445 |
| | THE ROOF OF THE MOUTH IN THE CHEWING AREA IS CALLED A. THE SOFT PALATE. *B. THE HARD PALATE. C. THE PHARYNX. D. THE UVULA. | 0446 |
| | THE KNOBLIKE EXTENSION OF THE SOFT PALATE IS CALLED A. THE HARD PALATE. B. THE PHARYNX. C. THE TONSIL. *D. THE UVULA. | 0447 |
| | INCISOR. CANINE. PREMOLAR AND MOLAR ARE THE NAMES OF A. BONES. B. GLANDS. *C. TEETH. D. MUSCLES. | 0448 |
| | THE PORTION OF THE TOOTH, EXTERNAL TO THE GUM IS A. THE HEAD. B. THE CAP. C. THE NECK. *D. THE CROWN. | 0449 |
| ₽ | THE NARROW PORTION OF THE TOOTH, AT THE GUM LINE IS CALLED A. THE CROWN. B. THE HEAD. *C. THE NECK. D. THE ROOT. | 0450 |
| C | THE PART OF THE TOOTH ENCASED IN A SOCKET IN THE JAWBONE IS A. THE HEAD. *B. THE ROOT. C. THE NECK. 49 | 0451 |

ERIC

D. THE CROWN. THE HARD WHITE SUBSTANCE THAT COVERS THE CROWN OF THE TOOTH IS 0452 CALLED A. CEMENTUM. B. PULP. *C. ENAMEL. D. DENTINE. THE SUBSTANCE THAT FORMS THE BULK OF THE TOOTH IS CALLED 0453 A. CEMENTUM. *R. DENTINE. C. PULP. D. ENAMEL. THE ESOPHAGUS CONNECTS 454 A. THE MOUTH AND GULLET. B. STOMACH AND LARGE INTESTINE. *C. THROAT AND STOMACH. D. GALL BLADDER AND SMALL INTESTINE. HOW MANY LAYERS OF SMOOTH MUSCLE DOES THE ESOPHAGUS HAVEO 0455 A. ONE *B. TWO C. THREE D. FOUR THE LAYERS OF MUSCLE IN THE ESOPHAGUS ARE CALLED 0456 A. FIRST, SECOND AND THIRD. R. INNER AND OUTER. *C. CIRCULAR AND LONGITUDINAL. D. OBLIQUE AND TRANSVERSE. THE FUNCTION OF THE MUSCULAR LAYERS OF THE ESOPHAGUS IS 0457 A. TO CHURN THE FOOD. *B. TO PUSH THE FOOD ALONG. C. TO PROVIDE DIGESTIVE JUICES. D. TO MIX THE FOOD. HOW MANY LAYERS OF SMOOTH MUSCLE DOES THE STOMACH WALL HAVEO 0458 A. ONE B. TWO *C. THREE D. FOUR THE LAYERS OF THE STOMACH ARE CALLED 459 A. INNER AND OUTER. B. DERMIS AND EPIDERMIS. *C. CIRCULAR, LONGITUDINAL AND ANGULAR SOBLIQUED. D. TRANSVERSE, CIRCULAR AND DORSAL %BACK#. THE TUBES THAT EXTEND FROM CERTAIN GLANDS INTO THE DIGESTIVE 0460 ORGANS ARE CALLED A. HOSES. *B. DUCTS. C. PIPES. D. CANALS.



THE VALVE WHICH PERMITS FOOD TO MOVE FROM THE STOMACH TO THE SMALL INTESTINE IS CALLED

A. PANCREATIC VALVE.

| | P. UVULAR VALVE. C. GASTRIC VALVE. *D. PYLORIC VALVE. | |
|---|---|------|
| | THE ABSORPTION OF FOOD INTO THE BLOOD STREAM TAKES PLACE A. IN THE STOMACH. **R. IN THE SMALL INTESTINE. C. IN THE LIVER. D. IN THE LARGE INTESTINE. | 0462 |
| | THE FIRST PORTION OF THE SMALL INTESTINE IS CALLED A. THE ESOPHAGUS. *B. THE DUODENUM C. THE ILEUM. D. THE JEJUNUM. | 0463 |
| | THE FINGER-LIKE PROJECTIONS IN THE SMALL INTESTINE ARE CALLED A. DUCTS. B. APPENDAGES. C. CILIA. *D. VILLI. | 0465 |
| | VILLI ARE A. HAIR-LIKE STRUCTURES THAT LINE THE TRACHEA. *B. FINGER-LIKE PROJECTIONS IN THE SMALL INTESTINE. C. SMALL TUBES IN THE KIDNEYS. D. FOLDS IN THE WALL OF THE STOMACH. | 466 |
| ~ | WITHIN THE VILLUS IS A THROUGH WHICH ANIMO ACIDS AND GLUCOSE ARE ABSORBED. A. DUCT B. LACTEAL *C. CAPILLARY D. GLAND | 0467 |
| | THE FUNCTION OF THE VILLI OF THE SMALL INTESTINE IS A. TO PUSH THE FOOD ALONG. *B. TO ALLOW THE FOOD TO BE ABSORBED. C. TO PERMIT THE ENZYMES TO ACT. D. TO PRODUCE INTESTINAL FLUID. | 0468 |
| | THE CAPILLARIES OF THE VILLI ALLOW FOR THE ABSORPTION OF A. FATTY ACIDS AND GLYCERIN. **R. AMINO ACIDS AND GLUCOSE. C. GLUCOSE AND GLYCERIN. D. GLYCERIN AND AMINO ACIDS. | 0469 |
| | THE OF THE VILLUS ALLOWS FOR THE ABSORPTION OF FATTY ACIDS. AND GLYCERIN A. DUCT *B. LACTEAL C. CAPILLARY D. GLAND | 047(|
| | THE LACTFAL OF THE VILLUS ALLOWS FOR THE ABSORPTION OF *A. FATTY ACIDS AND GLYCERIN. B. GLYCERIN AND AMINO ACIDS. C. GLUCOSE AND GLYCERIN. D. AMINO ACIDS AND GLUCOSE. | 047 |
| | IN THE SPACE PROVIDED PLACE THE LETTER THAT CORRESPONDS TO THE | 0009 |

| TRUCTURE IT IDENTIFIES. SNEED DIAGRAM OF DIGESTIVE SYSTEMS | , |
|--|-------|
| #A. SALIVARY GLANDS B. LIVER C. SMALL INTESTINE D. ESOPHAGUS E. STOMACH | 472 |
| A. SALIVARY GLANDS B. LIVER C. SMALL INTESTINE *D. ESOPHAGUS E. STOMACH | · 473 |
| A. SALIVARY GLANDS **B. LIVFR C. SMALL INTESTINE D. ESOPHAGUS E. STOMACH | 474 |
| A. SALIVARY GLANDS B. LIVER *C. SMALL INTESTINE D. ESOPHAGUS F. STOMACH | 475 |
| #A. GALL BLADDER B. LARGE INTESTINE C. STOMACH D. PANCREAS E. RECTUM | 476 |
| A. GALL BLADDER *B. LARGE INTESTINE C. STOMACH D. PANCREAS E. RECTUM | 478 |
| A. GALL RLADDER B. LARGE INTESTINF C. STOMACH **D. PANCREAS E. RECTUM | 479 |
| *************************************** | ***** |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF ENZYMES THAT AID THE DIGESTIVE PROCESS BY IDENTIFYING THE CHEMICAL CHANGES INITIATED BY DIGESTIVE ENZYMES. %8# | 0027 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| FNZYMES THEMSELVES BFLONG TO THE CLASS OF *A. PROTEINS. B. FATS. C. CARBOHYDRATES. D. NONE OF THE ABOVE | 0633 |

ERICAN ENZYME IS A CATALYST WHICH SPEEDS THE PROCESS OF A. PERISTALSIS.

P. CSMOSIS. *C. HYDROLYSIS. D. NONE OF THE ABOVE WHICH OF THE FOLLOWING IS *NOT* A CLASS OF DIGESTIVE ENZYMESO 0635 *A. CATALASE B. LIPASE C. PROTEINASE D. CARBOHYDRASE WHICH ENZYME LISTED IS INVOLVED IN PROTEIN DIGESTIONO 0636 A. PEPSIN B. TRYPSIN C. EREPSIN *D. ALL OF THE ABOVE WHICH SPECIFIC ENZYME IS INVOLVED IN THE DIGESTION OF MALTASE TO 0637 **GLUCOSEO** A. AMYLASE *B. MALTASE C • SUCRASE D. NONE OF THE ABOVE CHEMICAL REACTIONS CAN OCCUR DURING DIGESTION AT A TEMPERATURE 0638 AS LOW AS 37 DEGREES C BECAUSE A. THIS IS BODY TEMPERATURE. B. THE FOOD IS WELL CHEWED. C. THE FOOD MOLECULES ARE NOT VERY STABLE. *D. DIGESTION ENZYMES ARE PRESENT. LIPASE CATALYZES THE DIGESTION OF COMPLICATED FAT MOLECULES AS 0639 WELL AS SIMPLE FAT MOLECULES BECAUSE IT A. REACTS CHEMICALLY WITH FAT MOLECULES. B. COMBINES DIRECTLY WITH ALL FAT MOLECULES. *C. WEAKENS THE BONDS OF ANY FAT MOLECULE. D. DOES NONE OF THE ABOVE RENNIN IS MORE IMPORTANT TO THE CURDLING OF MILK IN INFANTS THAN 0640 IN ADULTS BECAUSE A. INFANTS DRINK MORE MILK. B. RENNIN IS AN ENZYME. C. CURDLING MAKES THE MILK SUITABLE FOR DIGESTION. *D. THE GASTRIC JUICES OF INFANTS CONTAIN RELATIVELY LITTLE ACID. E. RENNIN IS FOUND IN THE STOMACH. THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE ROLE OF 0028 DIGESTIVE GLANDS BY IDENTIFYING LOCATIONS AND FUNCTIONS OF THE SALIVARY GLANDS, LIVER, AND PANCREAS. %511 SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 0008 DIGESTIVE JUICES ARE FOUND IN THE 641 A. SALIVA. B. INTESTINAL JUICE.

C. GASTRIC JUICE.
D. PANCREATIC JUICE.
*E. ALL OF THE ABOVE

| DIGESTIVE GLANDS ARE LOCATED A. ALONG THE WALLS OF THE INTESTINE. B. IN THE STOMACH. C. IN THE PANCREAS. D. NEAR THE MOUTH. *E. ALL OF THE ABOVE | 642 |
|---|------|
| WHICH OF THE FOLLOWING COMPONENTS OF SALIVA IS THE *LUBRICATING PROTEIN*O A. WATER *B. MUCIN C. INORGANIC SALTS D. AMYLASE E. NONE OF THE ABOVE | 0643 |
| THE HYDROCHLORIC ACID CONTENT OF THE STOMACH IS *NOT* USEFUL TO *A. CATALYZE HYDROLYSIS. B. PROMOTE DIGESTION. C. ACTIVATE PEPSINOGEN. D. SOFTEN PROTEIN. E. DISINFECT. | 0644 |
| THE INTESTINAL FLUID WHICH IS IMPORTANT IN THE PRODUCTION OF AMINO ACIDS FROM PROTEINS IS *A. EREPSIN. B. LACTASE. C. MALTASE. D. SUCRASE. E. NONE OF THE AROVE | 0645 |
| · · · · · · · · · · · · · · · · · · · | **** |
| ANIMAL CELLS | |
| THE STUDENT WILL SHOW KNOWLEDGE OF THE CELL BY IDENTIFYING THE COMPOSITION. LOCATION AND FUNCTION FOR THE INDIVIDUAL CELL PARTS. | 0029 |
| SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE SMALLEST FUNCTIONAL AND STRUCTURAL UNIT OF LIFE IS CALLED A. A MOLECULE. *B. A CELL. C. AN ATOM. D. A NUCLEUS. | 0509 |
| A CFLL IS #A. THE BASIC UNIT OF LIFF. B. THE BASIC UNIT OF AN FLEMENT. C. THE SMALLEST UNIT OF AN ELEMENT. | 510 |
| THE CONTROL CENTER OF ALL CELL ACTIVITY IS CALLED A. THE CYTOPLASM. B. THE CELL WALL. C. THE NUCLEUS. D. THE VACUOLE. | 0511 |
| THE NUCLEUS IS | 512 |

| ٠ | *B. THE CONTROL CENTER OF ALL CELL ACTIVITY. C. THE SEMI-FLUID MATERIAL FILLING MOST OF THE CELL. D. THE THIN BOUNDARY SEPARATING LIVING CELLS. | |
|----|--|--------------------|
| P | THE CELL SUBSTANCE OUTSIDE THE NUCLEUS IS CALLED A. THE NUCLEOLUS. B. THE CHROMOSOMES. C. THE NUCLEOPLASM. *D. THE CYTOPLASM. | 0513 |
| | THE CYTOPLASM OF A CELL IS *A. THE SUBSTANCE OUTSIDE THE NUCLEUS. B. THE CONTROL CENTER OF ALL CELL ACTIVITY. C. THE SUBSTANCE ACTING AS THE GENETIC CODE OF THE ORGANISM. D. THE BOUNDARY SEPARATING THE CELL FROM NEIGHBORING CELLS. | 514 |
| | THE LIVING SUBSTANCE THAT MAKES UP ALL LIVING THINGS IS CALLED A. CYTOPLASM. B. NUCLEOPLASM. *C. PROTOPLASM. D. CHROMOPLASM. | 0515 |
| | PROTOPLASM IS A. THE CONTROL CENTER OF ALL CELL ACTIVITY. *B. THE SUBSTANCE THAT MAKES UP ALL LIVING THINGS. C. A SUBSTANCE FOUND ONLY IN PLANT CELLS. D. A SUBSTANCE FOUND ONLY IN ANIMAL CELLS. | 51€ |
| | ATTISSUE IS *A • A GROUP OF STRUCTURALLY AND FUNCTIONALLY SIMILAR CELLS• B • A GROUP OF CELLS HAVING NO DIRECT FUNCTIONAL RELATIONSHIP• C • A RADIOACTIVE SUBSTANCE TAKEN IN BY A GROUP OF CELLS• D • A COMPLEX ORGANIC COMPOUND FOUND BETWEEN THE FIBERS OF CELLULOSE• | 517 |
| | A GROUP OF STRUCTURALLY AND FUNCTIONALLY SIMILAR CELLS IS CALLED A · AN ORGAN · B · A SYSTEM · *C · A TISSUE · D · AN ORGANELLE · | 0518 |
| | SEVERAL TISSUES FUNCTIONING AS A UNIT ARE CALLED A. A CELL. *B. AN ORGAN. C. A SYSTEM. D. AN ORGANELLE. | 051 |
| ٠. | ************************************** | · ***** |
| | THE STUDENT WILL RECALL FACTS ABOUT CELL STRUCTURE AND FUNCTION BY IDENTIFYING THEM IN A LIST. %100 | 015 |
| • | DIRECTIONS - CIRCLE THE LETTER OF THE CORRECT ANSWER. | |
| | THE LIVING COVERING OF A CELL IS CALLED A. THE NUCLEUS. *B. THE CELL MEMBRANE. C. THE NUCLEAR MEMBRANE. | 180 |
| | C # THE MOSCENY MUNUMACE | |

| D. THE CYTOPLASM. THE PART OF THE CELL THAT SEEMS TO CONTROL CELL ACTIVITY IS CALLED *A. THE NUCLEUS. B. THE PROTOPLASM. C. THE CYTOPLASM. D. THE MITOCHONDRIA. | 1801 |
|---|---------|
| A NON-LIVING PART OF SOME CELLS IS CALLED A. NUCLEUS. B. CYTOPLASM. C. CELL MEMBRANE. *D. CELL WALL. | 1802 |
| THE LIVING MASS OF A CELL NOT COUNTING THE NUCLEUS IS CALLED THE A. CELL MEMBRANE. B. CHLORAPLAST. *C. CYTOPLASM. D. MITOCHONDRIA. | 1803 |
| THE PART OF THE CELL THAT RELEASES ENERGY IS THE A. NUCLEUS. B. CYTOPLASM. C. CHLORAPLAST. *D. MITOCHONDRIA. | 1804 |
| IN CERTAIN CELLS THE PART THAT CAN CONVERT LIGHT ENERGY INTO STORED ENERGY IS CALLED THE A. MITOCHONDRIAN. *B. CHLOROPLAST. C. NUCLEUS. D. CELL MEMBRANE. | 1805 |
| THE PART OF THE CELL THAT LETS MATERIALS IN AND OUT OF THE CELL IS THE A. CHLOROPLAST. B. CYTOPLASM. *C. CELL MEMBRANE. D. NUCLEUS. | 1806 |
| THE STRUCTURE THAT SEEMS TO BE MOST INVOLVED WITH THE REPRODUCTION OF THE CELL IS THE A. MITOCHONDRIAN. B. CELL MEMBRANE. **C. NUCLEUS. D. CYTOPLASM. | 1807 |
| THE STRUCTURES IN THE CELL THAT SEEM TO HAVE THE MOST TO DO WITH HEREDITY ARE *A. CHROMOSOMES. B. VACUOLES. C. MITOCHONDRIA. D. CELL MEMBRANES. | 1808 |
| VACUOLES IN THE CELL SEEM TO HAVE THE MOST TO DO WITH A. REPRODUCTION AND HEREDITY. B. RELEASING AND CAPTURING ENERGY. *C. GETTING FOOD AND RELEASING WASTE. D. EXCHANGING OXYGEN AND CARBON DIOXIDE. | 1809 _) |

| | 沙難 牵着车状球球 电电路电影 电电路电路 化水油 化二甲二甲二甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲 | | | |
|---|---|------|--|--|
| 1 | THE STUDENT WILL ANALYZE A SERIES OF FACTS AND RECOGNIZE THOSE WHICH ARE RELEVANT TO A SERIES OF STATEMENTS. %8 # | 0154 | | |
| | DIRECTIONS - BELOW IS A SERIES OF DIFFERENT FACTS. READ THE FACTS AND DETERMINE WHICH FACT FITS THE NUMBERED STATEMENTS. CIRCLE THE LETTER OF THE CORRECT STATEMENT. A LETTER MAY BE USED MORE THAN ONE TIME. | | | |
| | A. AN ANIMAL IS EXAMINED AND ANOTHER SMALL ANIMAL IS FOUND LIVING INSIDE OF IT. THIS SMALL ANIMAL IS CALLED A PARASITE AND DOES *NOT* HAVE A DIGESTIVE SYSTEM. B. EXPERIMENTS SHOW THAT ONLY MATERIALS OF VERY SMALL SIZES %MOLECULE SIZEH CAN BE USED BY CELLS AND THERE CAN MOVE ONLY THROUGH ONE OR TWO CELLS. C. A GROUP OF WATER ANIMALS SEEM TO BE ONLY TWO OR THREE LAYERS OF CELLS THICK AND DO NOT HAVE HIGHLY DEVELOPED PARTS. D. LARGE AREAS OF CELL MEMBRANES ARE FOUND TO BE NECESSARY TO ABSORB OR RELEASE LARGE QUANTITIES OF MATERIALS. E. ORGANISMS OVER A CERTAIN *SIZE* AND *VOLUME* CAN,T MOVE WELL OR KEEP THEIR SHAPE WELL WITHOUT THE PROPER TISSUES AND | | | |
| (| ORGANS. AN EXAMINATION OF A LUNG SHOWS MILLIONS OF AIR SACS. THE AIR SACS FLATTENED OUT COULD COVER A TENNIS COURT. A. A. B. B. C. C. T. D. D. | 1810 | | |
| | SOME BIOLOGISTS BELIEVE THAT SYSTEMS DO NOT DEVELOP WHEN THEY ARE NOT NEEDED OR DISAPPEAR WHEN NOT USED. *A. A B. B C. C D. D E. E | 1811 | | |
| | IT SEEMS THAT WHEN AN ORGANISM STARTS TO GET THICKER AND MORE COMPLICATED IT MUST DEVELOP SOME KIND OF CIRCULATION SYSTEM. A. A. *B. B. C. C. D. D. E. E. | 1812 | | |
| C | EXAMINATION OF A HUMAN SHOWS ABOUT TWENTY FEET OF INTESTINE IN A SMALL SPACE AND THAT THE INSIDE OF THE INTESTINE IS FOLDED OVER AND OVER. A. A. B. B. C. C. T. D. D. F. F. | 1813 | | |
| | SYSTEMS AND ORGANS SEEM TO BE NECESSARY WHEN CELLS ARE TOO *FAR* FROM NEEDED SOURCES OF SUPPLY OR AREAS TO RECEIVE WASTES. A. A | 1814 | | |

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| B • B C • C D • D E • D | |
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| SOME SOUTH AMERICAN EARTH WORMS ARE LONGER THAN MANY SNAKES BUT SNAKES MOVE MUCH FASTER A A A B B C C C D D D | 1815 |
| THERE IS NEED FOR DIGESTION REGARDLESS OF HOW LARGE OR SMALL AN ANIMAL IS. A. A. A. B. B. C. C. D. D. D. E. E. | 1816 |
| SOME ORGANISMS ACTUALLY LIVE OFF OF ANOTHER ANIMAL, S FOOD SUPPLY. #A. A. B. B. C. C. D. D. F. F. | 1817 |
| ^化 作者作 \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P\$ \$P | **** |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE LEVELS OF BIOLOGICAL ORGANIZATION BY IDENTIFYING THE NAMES AND CHARACTERISTICS OF THE FIVE BIOLOGICAL LEVELS. %5m | 0030 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| AN ORGAN IS A. A RADIOACTIVE SUBSTANCE TAKEN IN BY A GROUP OF CELLS. B. A GROUP OF CELLS HAVING NO DIRECT FUNCTIONAL RELATIONSHIP. *C. A GROUP OF TISSUES FUNCTIONING AS A UNIT. D. A COMPOUND FOUND IN A NUCLEUS OF ALL LIVING CELLS. | 520 |
| THE FIRST LEVEL OF ORGANIZATION OF LIVING THINGS IS A. THE SYSTEM LEVEL. B. THE TISSUE LEVEL. C. THE ORGAN LEVEL. *D. THE CELLULAR LEVEL. | 0521 |
| THE SECOND LEVEL OF ORGANIZATION OF LIVING THINGS IS A. THE CELLULAR LEVEL. B. THE SYSTEM LEVEL. **C. THE TISSUE LEVEL. D. THE ORGAN LEVEL. | 0522 |
| THE THRID LEVEL OF BIOLOGICAL ORGANIZATION IS A. THE TISSUE LEVEL. *B. THE ORGAN LEVEL. C. THE SYSTEM LEVEL. D. THE CELLULAR LEVEL. | 0523 |

| THE FOURTH LEVEL OF BIOLOGICAL ORGANIZATION IS A. THE ORGAN LEVEL. *B. THE SYSTEM LEVEL. C. THE TISSUE LEVEL. D. THE CELLULAR LEVEL. | 0524 |
|---|--------|
| SEVERAL ORGANS COOPERATING AS A FUNCTIONAL UNIT ARE CALLED A. A TISSUE. B. A CELL. *C. A SYSTEM. D. A COLONY. | 0525 |
| A SYSTEM IS A GROUP OF A. CELLS HAVING NO DIRECT FUNCTIONAL RELATIONSHIP. B. TISSUES FUNCTIONING AS A UNIT. *C. ORGANS FUNCTIONING AS A UNIT. D. CELLS HAVING A DIRECT FUNCTIONAL RELATIONSHIP. | 526 |
| THE FIFTH LEVEL OF BIOLOGICAL ORGANIZATION IS A. THE CELL LEVEL. B. THE TISSUE LEVEL. C. THE SYSTEM LEVEL. *D. THE ORGANISM LEVEL. | . 0534 |
| THE FRAMEWORK OF THE BODY IS CALLED *A. THE SKELETON. B. THE SKIN. C. THE SPINE. D. THE FPIDERMIS. | 535 |
| · · · · · · · · · · · · · · · · · · · | ***** |
| THE STUDENT CAN APPLY HIS KNOWLEDGE ON THE MAINTENANCE OF LIFE AND HOW IT RELATES TO THE FOOD CYCLE OF FISH, BY SELECTING THOSE CONDITIONS THAT ARE NECESSARY FOR THE EXISTENCE OF THIS CYCLE. \$20 | 0162 |
| | |
| FISH CAN CARRY ON ALL OF THE FOLLOWING FUNCTIONS *EXCEPT* A. BREATHING *B. MANUFACTURING ITS OWN FOOD. C. REPRODUCTION D. SWIMMING | 1844 |
| A. BREATHING *B. MANUFACTURING ITS OWN FOOD. C. REPRODUCTION | 1844 |
| A. BREATHING *B. MANUFACTURING ITS OWN FOOD. C. REPRODUCTION D. SWIMMING THE REMAINS OF DEAD ANIMALS AND PLANTS FALL TO THE BOTTOM OF THE OCEAN. ANIMALS FEED ON THESE REMAINS AND RELEASE MINERALS. WHICH OF THE FOLLOWING EXPLAINS HOW THESE MINERALS ARE PASSED TO FISHO A. THE FISH OBTAIN MINERALS BY SWALLOWING THE OCEAN WATER. *B. THE FISH OBTAIN MINERALS BY EATING SEAWEED WHICH HAD FED ON THE REMAINS. C. THE FISH OBTAIN MINERALS BY EATING THE REMAINS OF DEAD ANIMALS. | |

| HIGH SCATEMENT MOULD YOU RE *LEAST* LIKELY TO READ IN A O617 MOLOGY TEXTROOKO A. ALL PROTOPLASM CONSISTS OF CHEMICAL SUBSTANCES. H. PROTOPLASM IS ALMANS CHANGING. C. PROTOPLASM IS A COLLOIDAL SUSPENSION IN WATER. D. PROTOPLASM HAS BEEN MADE IN THE LABORATORY. MICH IS MOTE TRUE OF PROTOPLASMO SAL HAS A ROWN CHEMICAL FORMULA G. CONSISTS BOSTLY OF THE ELEMENTS OXYGEN, CARBON, HYDROGEN AND INTROCEN C. CONTAINS PROTEINS. CARROHYDRATES AND FATS D. IS LIVING MATTER WITHIN, THE SAME ORGANISM IT IS TRUE THAT A. PROTOPLASM FOUND IN ONE PART DIFFERS FROM THAT FOUND IN ADDITION OF THE SAME ORGANISM HAS THE SAME AMOUNT OF WATER. C. TO BURGAL CONCENT OF THE PROTOPLASM IS CONSTANT. D. ALL SUBSTANT TO GOOD HEALTH THAT PROTOPLASM CONTAINS ABOUT 67% ALL SUBSTANT TO GOOD HEALTH THAT PROTOPLASM CONTAINS ABOUT 67% A. DESPENSIVE B. D. THE WINTERSALE SOLVENT. C. IPPOGRANIC. C. IPPOGRANIC. C. IPPOGRANIC. C. PROTOPLASM HAS THE SAME MOUNT OF WATER ARE ORGANIC. HEALTH FIRST HIM. C. PROTOPLASH D. JELLYFISH C. PROTOPLASH D. JELY | CO | |
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| HOLOGY TEXTRORON A. ALL PROTOPLASM CONSISTS OF CHEMICAL SUBSTANCES. 2. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS A COLLOIDAL SUSPENSION IN WATER. D. PROTOPLASM HAS BEEN MADE IN THE LABORATORY. PROTOPLASM HAS TRUE OF PROTOPLASMO C. CONTAINS PROTEINS, CARROHYDRATES AND FATS D. IS LIVING MATTER WITHIA THE SAME ORGANISM IT IS TRUE THAT A FROTOPLASM FOUND IN ONE PART DIFFERS FROM THAT FOUND IN ALDOTER PART. D. ALL PROTOPLASM HAS THE SAME AMOUNT OF WATER. C. WE MINERAL CONTENT OF THE PROTOPLASM IS CONSTANT. D. ALL SUBSTANCES IN PROTOPLASM EXCEPT WATER ARE ORGANIC. TIS IMPORTANT TO GOOD HEALTH THAT PROTOPLASM CONTAINS ABOUT 67% D. HAST PROTUPES. A THEOPENSIVE. C. IPONGANIC. C. PROTOPLASM D. JELLYFISH D. JELYFISH D. J | CAPTON, OF A | 1848 |
| HOLGGY TEXTROORD A. ALL PROTOPLASM CONSISTS OF CHEMICAL SUBSTANCES. B. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS ACULOIDAL SUSPENSION IN WATER. D. PROTOPLASM HAS BEEN MADE IN THE LABORATORY. MICH IS *NOTE TRUE OF PROTOPLASMO 8A, NAS A KNOWN CHEMICAL FORMULA G. COSKISTS MOSTLY OF THE ELEMENTS OXYGEN, CARBON, HYDROGEN AND MITROGEN C. CONTAINS PROTEINS, CARBOHYDRATES AND FATS D. IS LIVING MATTER MITTELS THE SAME ORGANISM IT IS TRUE THAT A. PROTOPLASM FOUND IN ONE PART DIFFERS FROM THAT FOUND IN ALDOTIER PART. C. T.E MINERAL CONTENT OF THE PROTOPLASM IS CONSTANT. D. ALL SUBSTANCES IN PROTOPLASM EXCEPT WATER ARE ORGANIC. IT IS IMPORTANT TO GOOD HEALTH THAT PROTOPLASM CONTAINS ABOUT 67% A. PREMISE WATER IS A. PREMISE WATER IS A. PREMISE WATER IS C. T.E MINERAL COMPOUND. MICH OF THE FOLLOWING DOES *NOT* CONTAIN PROTOPLASMO A. LICENFRIEND D. JELLYFISH | TARICAL OF A ARE HOLDS TO STERIAS TO BOTH DA HEITHER | |
| HOLGOY TEXTROOKO A. ALL PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS A COLLOIDAL SUSPENSION IN WATER. D. PROTOPLASM HAS BEEN MADE IN THE LABORATORY. MICH IS WNOTO TRUE OF PROTOPLASMO 618 62. HAS A KNOWN CHEMICAL FORMULA 6. CONSISTS MOSTLY OF THE ELEMENTS OXYGEN, CARBON, HYDROGEN AND NITROGEN C. CONTAINS PROTEINS. CARBOHYDRATES AND FATS D. IS LIVING MATTER WITHIG THE SAME ORGANISM IT IS TRUE THAT A. FROTOPLASM FOUND IN ONE PART DIFFERS FROM THAT FOUND IN ALGORIER PART. D. ALL PROTOPLASM HAS THE SAME AMOUNT OF WATER. C. THE MIMERAL CONTENT OF THE PROTOPLASM IS CONSTANT. D. ALL SUBSTANCES IN PROTOPLASM EXCEPT WATER ARE ORGANIC. IT IS IMPORTANT TO GOOD HEALTH THAT PROTOPLASM CONTAINS ABOUT 67% O620 C. INGGANISE. C. INGGANISE. C. INGGANISE. C. FORGANIS MATER IS A. ITEMPENSIVE. C. FORGANIS. C. FORGANIS MATER IS C. CICTORINA C. FORGANIS MATER IS C. CICTORINA C. FORGANIS MATER IS C. CICTORINA C. PROTOPLASM D. JELLYFISH C. PROTOPLASM D. JELLYFISH C. PROTOPLASM D. JELLYFISH C. GLUCOSE TO AND RECOMPOUND. THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CONTENT OF THE CHARACTERISTICS OF BACTERIA AND MOLD, THE CO | #UEARRY A. MONDA B. DACTERIA. "Call 1711 | 1846 |
| MOLOGY TEXTROOKO A ALL PROTOPLASM CONSISTS OF CHEMICAL SUBSTANCES. B. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS A COLLOIDAL SUSPENSION IN WATER. TO. PROTOPLASM HAS BEEN MADE IN THE LABORATORY. MICH IS *NOTE TRUE OF PROTOPLASMO **A. NAS A KNOWN CHEMICAL FORMULA G. CONSISTS MOSTLY OF THE ELEMENTS OXYGEN, CARBON, HYDROGEN AND NITROGEN C. CONTAINS PROTEINS, CARBOHYDRATES AND FATS D. IS LIVING MATTER WITHIN THE SAME ORGANISM IT IS TRUE THAT A. PROTOPLASM FOUND IN ONE PART DIFFERS FROM THAT FOUND IN AUDITHER PART. B. ALL PROTOPLASM HAS THE SAME AMOUNT OF WATER. C. THE MINERAL CONTENT OF THE PROTOPLASM IS CONSTANT. D. ALL SUBSTANCES IN PROTOPLASM EXCEPT WATER ARE ORGANIC. IT IS IMPORTANT TO GOOD HEALTH THAT PROTOPLASM CONTAINS ABOUT 67% A. INEXPENSIVE. G. LIF *UNITVERSAL* SOLVENT. C. IPORGANIC. **BO. CEAT-RETAINING. F. A STAPILE COMPOUND. UBCCM OF THE FOLLOWING DOFS *NOT* CONTAIN PROTOPLASMO OF JELLYFISH **BUTSMELL C. PTOTOPLASM D. JELLYFISH | THESE STUDYING THE CHARACTERISTICS OF BACTERIA AND MOLD, THE STUDENT CAN APPLY THIS INFORMATION TO DISTINGUISH WHETHER A GIVEN | |
| MOLGGY TEXTROOKO A. ALL PROTOPLASM CONSISTS OF CHEMICAL SUBSTANCES. B. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS A COLLOIDAL SUSPENSION IN WATER. D. PROTOPLASM HAS BEEN MADE IN THE LABORATORY. MICH IS *NOT* TRUE OF PROTOPLASMO 618 6A. HAS A KNOWN CHEMICAL FORMULA B. CONSISTS MOSTLY OF THE ELEMENTS OXYGEN, CARBON, HYDROGEN A.D. NITROGEN C. CONTAINS PROTEINS. CARBOHYDRATES AND FATS D. IS LIVING MATTER WITHIN THE SAME ORGANISM IT IS TRUE THAT A. FROTOPLASM FOUND IN ONE PART DIFFERS FROM THAT FOUND IN AUCOTHER PART. C. THE MINERAL CONTENT OF THE PROTOPLASM IS CONSTANT. D. ALL SUBSTANCES IN PROTOPLASM EXCEPT WATER ARE ORGANIC. IT IS LECONYANT TO GOOD HEALTH THAT PROTOPLASM CONTAINS ABOUT 67% O620 WATER DECAUSE WATER IS A. ITEXPENSIVE. B. THE *UNIVERSAL® SOLVENT. C. ITORGANIC. **D. HEAT-RETAINING. | A& FOCTSRIUM B& NUTSBELL C& PROTOPLASM D& JELLYFISH | 0621) |
| WOLGGY TEXTROOKO A. ALL PROTOPLASM CONSISTS OF CHEMICAL SUBSTANCES. B. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS A COLLOIDAL SUSPENSION IN WATER. D. PROTOPLASM HAS BEEN MADE IN THE LABORATORY. MICH IS *NOT* TRUE OF PROTOPLASMO BA, HAS A KNOWN CHEMICAL FORMULA BA CONSISTS MOSTLY OF THE ELEMENTS OXYGEN, CARBON, HYDROGEN AND NITROGEN C. CONTAINS PROTEINS, CARBOHYDRATES AND FATS D. IS LIVING MATTER WITHIA THE SAME ORGANISM IT IS TRUE THAT ALE PROTOPLASM FOUND IN ONE PART DIFFERS FROM THAT FOUND IN ANOTHER PART. BA ALL PROTOPLASM HAS THE SAME AMOUNT OF WATER. C. THE MINERAL CONTENT OF THE PROTOPLASM IS CONSTANT. | TATER DECAUSE WATER IS A. IMEXPENSIVE. B. DUE *UNIVERSAL® SOLVENT. C. IMORGANIC. *D. DEAT-RETAINING. | 0620 |
| TIOLOGY TEXTROOKO A. ALL PROTOPLASM CONSISTS OF CHEMICAL SUBSTANCES. B. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS A COLLOIDAL SUSPENSION IN WATER. D. PROTOPLASM HAS BEEN MADE IN THE LABORATORY. MICH IS *NOTO TRUE OF PROTOPLASMO BAS HAS A KNOWN CHEMICAL FORMULA B. CONSISTS MOSTLY OF THE ELEMENTS OXYGEN, CARBON, HYDROGEN AND NITROGEN C. CONTAINS PROTEINS, CARBOHYDRATES AND FATS | ALL PROTOPLASM FOUND IN ONE PART DIFFERS FROM THAT FOUND IN ACCOMMER PART. By ALL PROTOPLASM HAS THE SAME AMOUNT OF WATER. CV THE MINERAL CONTENT OF THE PROTOPLASM IS CONSTANT. | 0619 |
| TOLOGY TEXTROOKO A. ALL PROTOPLASM CONSISTS OF CHEMICAL SUBSTANCES. B. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS A COLLOIDAL SUSPENSION IN WATER. | BA, HAS A KNOWN CHEMICAL FORMULA BA CONSISTS MOSTLY OF THE ELEMENTS OXYGEN, CARBON, HYDROGEN AND NITROGEN CONTAINS PROTEINS, CARBOHYDRATES AND FATS | 618 |
| | TIOLOGY TEXTROOKO A. ALL PROTOPLASM CONSISTS OF CHEMICAL SUBSTANCES. B. PROTOPLASM IS ALWAYS CHANGING. C. PROTOPLASM IS A COLLOIDAL SUSPENSION IN WATER. | 0617 |

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D. NEITHER

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| | AFTER STUDYING THE REPRODUCTIVE SYSTEM OF BACTERIA, THE STUDENT CAN DETERMINE THE PROBABLE OUTCOME OF MULTIPLICATION OF THESE ORGANISMS BY ANALYZING THEM UNDER GIVEN CONDITIONS. %30 | | 0164 |
| | DIRECTIONS - READ THE FOLLOWING PARAGRAPH. AND ANSWER THE OUESTIONS BELOW. | | • |
| | AN ISOLATED BACTFRIUM IS ON A SUBSTANCE IN A ROOM WITH NO WINDOW. THE ROOM IS DRY, BUT VERY WARM. NO LIGHT IS EVIDENT IN THE ROOM. CONSIDER THESE CONDITIONS, AND ANSWER THE FOLLOWING OUESTIONS. | ٠ | |
| | AS TO THE POSSIBILITY OF THIS BACTERIUM DIVIDING, IT *A. CAN DIVIDE. B. CANNOT DIVIDE. C. NOT ENOUGH INFORMATION | ٠. | 1849 |
| • | IN ORDER FOR THE FASTEST GROWTH OF THE BACTERIA THE ROOM WOULD *A. MORE MOISTURE. B. MORE LIGHT. C. BOTH OF THE ABOVE D. NONE OF THE ABOVE | | 1850 |
| | UNDER PERFECT CONDITIONS IN THIS ROOM, THE GROWTH OF BACTERIA A. WILL STOP IN AN HOUR. ***R. WILL CONTINUE UNTIL THE CONDITIONS ARE CHANGED. C. NOT ENOUGH INFORMATION GIVEN | | 1851 |
| | *************************************** | **** | • * * * * |
| | THE STUDENT WILL APPLY THE DEFINITIONS OF *HELPFUL* AND *HARMFUL* TO DECIDE WHETHER A GIVEN DESCRIPTION OF BACTERIA HAS A HELPFUL OR HARMFUL FFFECT. %4π | ' ; | 0165 |
| | WHEN BACTERIA KEEPS THE SOIL FERTILE BY MAKING NITROGEN. THE BACTERIA HAS AN EFFECT THAT IS *A. HELPFUL. B. HARMFUL. C. BOTH | · • | 1852 |
| | WHEN BACTERIA IS A CAUSE FOR SPOILAGE OF FOOD, THE BACTERIA HAS EFFECT THAT IS A. HELPFUL. *B. HARMFUL. C. BOTH | | 1853 |
| | WHEN BACTERIA INFLUENCES THE DECAY OF THINGS THAT HAVE DIED. THE EFFECT OF THE BACTERIA IS *A. HELPFUL. R. HARMFUL. | | 1854 |
| e e | C. BOTH | , ii | |



| | •1 |
|---|--------------------|
| IF BACTERIA ENTERS THE BODY. AND CAUSES TISSUES TO BECOME DISEASED. THE EFFECT OF BACTERIA IS A. HELPFUL. | 1855 |
| #R. HARMFUL. C. BOTH | • |
| 方沙森 在 领 杂价技 张 张 新 新 新 并 共 共 共 计 计 计 计 计 计 并 共 共 共 共 共 共 共 共 共 | ******* |
| THE STUDENT WILL COMPREHEND WHETHER OR NOT A MOLD IS HELPFUL BY SELECTING ITS EFFECT ON HARMFUL BACTERIA. %20 | 0166 |
| A GROWTH OF PENICILLIN MOLD DEVFLOPED IN A CULTURE DISH WHERE A COLONY OF BACTERIA HAD BEEN EXPECTED. | |
| FROM THIS INFORMATION. IT WOULD APPEAR THAT THE PENICILLIN HAD A. NO EFFECT ON THE BACTERIA. #B. A NOTICEABLE EFFECT ON THE BACTERIA. C. NOT ENOUGH INFORMATION GIVEN. | 1856 |
| IF THE BACTERIA WERE HARMENT THE EFFECT OF THE MOLD ON IT WOULD | 1857 |
| #A。 HELPFUL。 B. HARMFUL。 C. BOTH | |
| 共和军部 经存货帐户 经存货证券 经存货证券 经存货证券 经存货证券 经存货证券 经存货证券 经存货证券 经存货证券 医疗证证证证证证证证证证证证证证证证证证证证证证证证证证证证证证证证证证证 | **** |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE FIVE CLASSES OF BODY TISSUE BY SELECTING THE NAMES, COMPOSITION, AND FUNCTION FOR EACH CLASS. %10 | 0032 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE FOUR TYPES OF TISSUE ARE A. CONNECTIVE, MUSCLE, BONE AND LIQUID, B. MUSCLE, CARTILAGE, NERVE AND EPITHELIAL. C. CONNECTIVE, BONE, NERVE AND MUSCLE, #D. CONNECTIVE, MUSCLE, NERVE AND EPITHELIAL. | 527 |
| THE TYPE OF TISSUE THAT COVERS THE BODY SURFACE INSIDE AND GHTSIDE IS CALLED A. FIBROFLASTIC. 4R. FPITHELIAL. C. ADIPOSE. D. CARTILAGE. | 0528 |
| 计价值 经保存帐款 经存货帐户 计计划计算 医动物性 经股份证券 医克尔特氏征 经股份证券 医克尔特氏 经股份证券 医克尔氏试验 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基 | · *** |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE THREE TYPES OF MISCLE TISSUE BY IDENTIFYING THE LOCATION AND CHARACTERISTICS OF FACH TYPE. %50 | 0033 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE THREE TYPES OF MUSCLE TISSUE ARE #A. CARDIAC SMOOTH AND SKELETAL. B. SMOOTH, ADIPOSE AND RETICULAR. C. CARDIAC, RETICULAR AND SMOOTH. 62 | 529 |

| | BONE, CARTILAGE, FAT AND BLOOD ARE ALL TYPES OF A. NERVE TISSUE. **B. CONNECTIVE TISSUE. C. EPITHFLIAL TISSUE. D. MUSCLF TISSUE. | 0530 |
|------|--|------|
| | THE TYPE OF MUSCLE THAT FORMS THE WALL OF MANY INTERNAL ORGANS IS CALLED A. CARDIAC. #B. SMOOTH. C. STRIATED. D. ADIPOSE. | 0531 |
| | SMOOTH MUSCLE #A. FORMS THE WALLS OF MANY INTERNAL ORGANS. B. CONNECTS BONE TO SKELETAL MUSCLE. C. FORMS THE WALLS OF THE HEART. | 532 |
| | CARDIAC MUSCLE A. FORMS THE WALL OF MANY INTERNAL ORGANS. B. CONNECTS BONE TO BONE. **C. IS THE INVOLUNTARY MUSCLE FOUND IN THE HEART. D. IS THE VOLUNTARY MUSCLE OF THE SKELETON. | 533 |
| | · · · · · · · · · · · · · · · · · · · | *** |
| (| NERVOUS SYSTEM | |
| | THE STUDENT WILL SHOW KNOWLEDGE OF THE CENTRAL NERVOUS SYSTEM BY DENTIFYING ITS PARTS AND THEIR INDIVIDUAL FUNCTIONS. %150 | 0034 |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | WHICH OF THE FOLLOWING KINDS OF NEURONS ARE REQUIRED TO REACT TO A MOSQUITO ON YOUR ARM BY BRUSHING IT OFFO A SENSORY B * ASSOCIATION C * MOTOR "D * ALL OF THE ABOVE | 0593 |
| | IF A HEAT RECEPTOR BECOMES ATTACHED BY A NERVE TO THE COLD SENSING PART OF THE BRAIN. THEN IT WILL SENSE HEAT AS *A. COLD. B. TINGLING. C. NUMBNESS. D. NO SENSITIVITY. F. NO CHANGE. | 0594 |
| Ţ | THE ENERGY TRANSMITTED BY ANY NERVE 1. GOES THROUGH THE SPINAL CORD. B. MOVES INSTANTLY TO THE SPINAL CORD. C. MOVES DIRECTLY TO THE BRAIN. D. MOVES TO A SPECIFIC PLACE. E. ALL OF THE ABOVE | 595 |
| SIC. | THE PHYSICIAN WHO TAPS THE PATIENT'S KNEE DURING A PHYSICAL EXAMINATION IS STUDYING | 0596 |

FXAMINATION IS STUDYING

| | AL REFLEX ACTION. AL THE CONDITION OF THE NERVES AND SPINAL CORD. C. AN EXAMPLE OF BODY ACTIVITY INDEPENDENT OF THE BRAIN. D. AN ACTION INTERPRETED BY THE SPINAL CORD. C. ALL OF THE ABOVE IT IS TRUE THAT THE AUTONOMIC NERVOUS SYSTEM A. IS MADE UP OF TWO DISTINCT PARTS WITH OPPOSITE ACTIVITIES. A. CONFROLS INVOLUNTARY ACTIONS OF ORGANS. C. HAS IMPORTANT RELAY POINTS CALLED GANGLIA. PD. HAS ALL THE ABOVE CHARACTERISTICS. IT HAS NONE OF THE ABOVE CHARACTERISTICS. | 0597 |
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| | 《《《春·春·春·春·春·春·春·春·春·春·春·春·春·春·春·春·春·春· | *** |
| | THE STUDENT WILL DIFFERENTIATE BETWEEN MOTOR, SENSORY AND CRAMINAL MERVES BY LISTING DESCRIPTIVE TERMS THAT CHARACTERIZE THE FUNCTION OF EACH. \$140 | 0035 |
| | WHAT TYPE OF NERVE ARISES FROM THE RETINA. "A. SENSORY B. HOTOR C. CRANIAL | 1720 |
| | THIS MURVE HAS NO GANGLIA A. STUSORY PB. HOTOR C. CRANIAL | 1721 |
| | WHICH NERVES ARE AFFESEMT WAS SENSORY PACTOR CO CRAMIAL | 1722 |
| | COLCH MERVES ARE EFFERENT AN SERSORY AS ARE FERENT COLGRANIAL | 1723 |
| * | 1. (4 T T) 分价 T) 简目者 特别特别的 特别特别的 T) 可以证明证明的 T) 的现在分词 T) 的现在分词 T) 对于 T) 分价 T) T) 对于 T) 对于 T) 对于 T) | ***** |
| : | THE STUDENT WILL DEMONSTRATE COMPREHENSION OF THE ANATOMY OF A MERVE CELL BY MATCHING COMPONENT PARTS OF THE NERVE CELL IN A GIVEN DIAGRAM. MOD | 0036 |
| | SOUTETT THE PHRASE THAT BEST COMPLETES THE STATEMENT. | 0010 |
| | AGE DAPE OF A MERVE CELL IS A STARMSHAPED. 3. HOUNDED. AGE BOTH I AND 2 OF MORE OF THE ABOVE | 851 |
| : | REFO STAMBARD DIAGRAM OF NERVE CELL WITH PARTS LETTERED TO TO RECEIOND TO LETTERS BELOW. | , |

| THE SYMAPSE IS ALEA NUMBER 4D | 853 |
|---|------------------|
| THE DENDRITES ARE AREA NUMBER #E | 854 |
| THE NUCLEUS IS AREA NUMBER *B | . 855 |
| *************************************** | ******* |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE HUMAN BRAIN BY IDENTIFYING THE RELATIVE SIZE AND FUNCTIONS OF ITS COMPONENT PARTS. \$7n | 0037 |
| SELECT THE WORD OR PHRISE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE THREE MAIN PARTS OF THE BRAIN ARE THE A. SPINAL CORD. DENDRITES. AND SYNAPSE. **B. MEDULLA. CEREBELLUM. AND CEREBRUM. C. MEDULLA. SPINAL CORD. AND SENSORY AREA. D. SPINAL CORD. CEREBELLUM. AND CEREBRUM. | 0857 |
| THE LARGEST AREA OF THE BRAIN IS THE A. MEDULLA. *B. CEREBRUM. C. SPINAL CORD. D. CEREBFLLUM. | |
| THE AREA OF THE BRAIN THAT CONTROLS YOUR INTELLECTUAL AND REASON INTELLECTUAL | ON ~ 0859 |
| THE AREA OF THE BRAIN THAT STRENGTHENS THE IMPULSES TRANSMITTER TO THE BODY IS THE A. MEDULLA. B. CEREBRUM. C. SPINAL CORD. *D. CEREBELLUM. | D 0860 |
| THE AREA OF THE BRAIN THAT HELPS TO BALANCE YOUR BODY IS THE A. MEDULLA. B. CEREBRUM. C. SPINAL CORD. *D. CEREBELLUM. | 0861 .: |
| THE PART OF THE BRAIN THAT CONTROLS THE BODY, S RESPIRATION RAT IS THE **A. MEDULLA. **R.**CERFBRUM. **C.**CERFBRUM. **C.**CERFBRUM. **C.**CERFBRUM. | E 0862 |
| THE PART OF THE BRAIN THAT CONTROLS THE HEART.S ACTION IS THE *A. MEDULLA. B. CEREBRUM. C. SPINAL CORD. D. CEREBELLUM. | 086 |

SKFLETAL SYSTEM

THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE FUNCTION OF THE 0038 SKELETAL SYSTEM BY IDENTIFYING ITS PRIMARY BODY FUNCTIONS. \$24 SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 8000 IS TO SUPPORT THE BODY, TO ALLOW FOR 0536 THE FUNCTION OF THE ATTACHMENT OF MUSCLES AND TO PROTECT DELICATE ORGANS. A. SKIN A. NERVES *C. SKELETON D. TENDONS 0537 WHICH OF THE FOLLOWING IS *NOT* A FUNCTION OF THE SKELETONO A. SUPPORT THE BODY R. ALLOW FOR ATTACHMENT OF MUSCLES #C. PREVENT THE LOSS OF WATER D. PROTECTION OF DELICATE ORGANS THE STUDENT WILL DISTINGUISH BETWEEN THE AXIAL AND APPENDICULAR 0040 DIVISIONS OF THE SKELETAL SYSTEM BY IDENTIFYING THE BONES THAT PERTAIN TO FACH DIVISION. 8000 SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 965 THE CRANIAL SKELETON IS FOUND IN THE #A. HEAD. B. ARMS AND LEGS. C. TRUNK OF THE BODY. 966 THE AXIAL SKELETON IS FOUND IN THE A. HEAD. R. ARMS AND LEGS. *C. TRUNK OF THE BODY. 0967 THE APPENDICULAR SKELFTON IS FOUND IN THE A. HEAD. *A. ARMS AND LEGS. C. TRUNK OF THE BODY.

THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE TWO TYPES OF JOINTS BY IDENTIFYING CHARACTERISTICS AND EXAMPLES OF BOTH FIXED AND MOVABLE JOINTS. %100

0041

MATCH THE LOCATION WITH THE TYPE OF JOINT ...

THE POINT AT WHICH TWO BONES COME TOGETHER IS CALLED

0543

*A. A JOINT.

R. A LOCUS. C. A CANAL.

| · | |
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| A JOINT IS A. MADE UP OF YELLOW MARROW. *B. THE POINT AT WHICH TWO BONES COME TOGETHER. C. MADE UP OF RED MARROW. | 544 |
| D. THE PLACE AT WHICH A MUSCLE JOINS A BONE. | • |
| HIP A. HINGE JOINT **B. BALL AND SOCKET JOINT C. GLIDING JOINT D. IMMOVABLE JOINT F. PIVOT JOINT | 54 |
| SKULL | 546 |
| A. HINGE JOINT B. BALL AND SOCKET JOINT C. GLIDING JOINT *D. IMMOVABLE JOINT F. PIVOT JOINT | |
| | E 4.7 |
| LOWER JAW *A. HINGE JOINT B. BALL AND SOCKET JOINT C. GLIDING JOINT D. IMMOVABLE JOINT E. PIVOT JOINT | 547 |
| VERTEBRAE | 548 |
| A. HINGE JOINT B. BALL AND SOCKET JOINT *C. GLIDING JOINT D. IMMOVABLE JOINT E. PIVOT JOINT | |
| 法你按证 我我我我我 我 我我我你 我我我我我我 你 我我我我我 我 我我我你我 我 我我我看 我 我我我你 我 我我我我 我 我我我我 我 我我我我我 我 我我我我我 | · ********* |
| THE STUDENT RECOGNIZES THE ROLE OF CARTILAGE, LIGAMENTS AND TENDONS BY IDENTIFYING THEIR DEFINITIONS AND FUNCTIONS IN THE SKELETAL SYSTEM. %60 | 0042 |
| SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE TISSUE THAT CONNECTS BONE TO MUSCLE SO THAT THE BONE CAN MOVE IS CALLED *A. TENDON. B. MUSCLE. | 0 96 8 968 |
| C. LIGAMENT. D. NERVE. | |
| THE TISSUE THAT CONNECTS BONE TO BONE IN ORDER TO KEEP THE PROPER SHAPE AND SUPPORT IS CALLED A. TENDON. B. MUSCLE. | 0969 |
| ≈ C. LIGAMENT. D. NERVE. | |

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LIGAMENTS ARE TOUGH STRANDS OF A. CONNECTING TISSUE THAT ATTACH MUSCLE TO BONE.

| *B. CONNECTIVE TISSUE THAT HOLD BONES TOGETHER AT A JOINT. C. MUSCLE TISSUE THAT HOLD CARTILAGE IN PLACE AT A JOINT. D. MUSCLE TISSUE THAT CONNECT BONE TO BONE. | |
|---|-------|
| TOUGH BANDS OF CONNECTIVE TISSUE THAT HOLD BONES TOGETHER AT THE JOINT ARE CALLED A. MUSCLES. B. TENDONS. *C. LIGAMENTS. D. CARTILAGE. | 0550 |
| TOUGH BANDS OF CONNECTIVE TISSUE THAT ATTACH SOME MUSCLES TO BONES ARE CALLED A. MUSCLES. #R. TENDONS. C. LIGAMENTS. D. CARTILAGE. | 0551 |
| TENDONS ARE TOUGH BANDS OF A. MUSCLE TISSUE THAT HOLD CARTILAGE IN PLACE AT A JOINT. *B. CONNECTIVE TISSUE THAT ATTACH MUSCLES TO BONE. C. MUSCLE TISSUE THAT CONNECT BONE TO BONE. D. CONNECTIVE TISSUE THAT HOLD BONES TOGETHER AT THE JOINT. | 552 |
| 化环状状态 计计划存储 经共产债券 经未存款的 经未存款的 经未经股份 经经济的 经经济的 经证证证证 经证证证证 经证证证证 经证证证证 经证证证证 经证证证证 计记录记录 计设计设计器 计设计设计设计设 | ***** |
| THE STUDENT WILL SHOW KNOWLEDGE OF THE DIFFERENT TYPES OF MOVABLE JOINTS BY MATCHING A JOINT WITH ITS CHARACTERISTICS AND LOCATION. #4m | 0043 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 8000 |
| THE JUINT BETWEEN THE SHOULDER AND UPPER ARM IS CALLED A A. HINGE JOINT. *B. BALL AND SOCKET JOINT. C. SLIDING JOINT. D. PIVOT JOINT. | 0970 |
| THE JOINT RETWEEN THE LOWER AND UPPER LEG IS CALLED A *A. HINGE JOINT. B. BALL AND SOCKET JOINT. C. SLIDING JOINT. D. PIVOT JOINT. | 0971 |
| THE JOINT BETWEEN THE HAND AND LOWER ARM OR BETWEEN THE FOOT AND LOWER LEG IS CALLED A A. HINGE JOINT. B. BALL AND SOCKET JOINT. #C. SLIDING JOINT. D. PIVOT JOINT. | 0972 |
| THE JOINT BETWEEN THE UPPER PART OF THE NECK AND THE HEAD IS CALLED A A. HINGE JOINT. B. BALL AND SOCKET JOINT. C. SLIDING JOINT. #D. PIVOT JOINT. | 0973 |

| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE FUNCTIONS OF THE LONG BONES BY IDENTIFYING THE PART OF THE BONE THAT ACCOMPLISHES A SPECIFIED FUNCTION. %40 | 0044 |
|--|----------|
| SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE PART OF THE BONE THAT PRODUCES BLOOD IS A. THE YELLOW MARROW. *B. THE RED MARROW. C. THE BONY LAYER. D. THE HONEYCOMB BONE. F. THE GROWTH PLATE. | 0974 |
| THE PART THAT ALLOWS THE BONE TO GET LONGER IS A. THE YELLOW MARROW. B. THE RED MARROW. C. THE BONY LAYER. D. THE HONEYCOMB BONE. *E. THE GROWTH PLATE. | 0975 |
| THE PART OF THE BONE THAT SUPPORTS MOST OF THE WEIGHT IS A. THE YFLLOW MARROW. B. THE RFD MARROW. *C. THE BONY LAYER. D. THE HONEYCOMB BONE. E. THE GROWTH PLATE. | 0976 |
| THE PART OF THE BONE THAT DISTRIBUTES THE WEIGHT IS A. THE YELLOW MARROW. B. THE RED MARROW. C. THE BONY LAYER. *D. THE HONEYCOMB BONE. E. THE GROWTH PLATE. | 0977 |
| *************************************** | ******** |
| THE STUDENT WILL APPLY HIS KNOWLEDGE OF THE FUNCTIONS OF THE DIFFERENT JOINTS OF THE BODY BY IDENTIFYING ANALOGOUS FUNCTIONAL RELATIONSHIPS. %20 | 0045 |
| DIRECTIONS BELOW IS A SERIES OF STATEMENTS AND FOUR LETTERED BODY JOINTS. EACH STATEMENT DESCRIBES THE ACTION OF SOME COMMON ITEM. CIRCLE THE LETTER OF THE TYPE OF BODY JOINT THAT HAS AN ACTION LIKE THE STATEMENT. A LETTER MAY BE USED MORE THAN ONE TIME. | 0035 |
| A. HINGE JOINT B. BALL AND SOCKET C. SLIDING JOINT D. PIVOT JOINT | |
| A* R C D THE ACTION OF A KITCHEN CABINET DOOR. | 0978 |
| A B C D* THE ACTION OF A ROTATING LAWN SPRINKLER. | 0979 |
| A B* C D THE ACTION OF THE REAR VIEW MIRROR IN A CAR. | 0980. |
| A* B C D THE ACTION OF A REFRIGERATOR DOOR. | 0981 |
| ERIC A B C* D THE ACTION OF DRAW DRAPES. | 0982 |

| A B C D* THE ACTION OF A FERRIS WHEEL. | 0983 |
|---|-------------------|
| A B* C D THE ACTION OF THE BUILT-IN ANTENNA ON A T.V. SET OR RADIO. | 0984 |
| | |
| · · · · · · · · · · · · · · · · · · · | ** *** |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE ENDOCRINE GLANDS BY IDENTIFYING THE LOCATION. FUNCTIONS AND HORMONES PRODUCED BY GLANDS OF THE SYSTEM. %204 | 0047 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 8000 |
| THE PITUITARY GLAND IS LOCATED A. RELOW THE VOICE BOX. P. IN BACK OF THE THYROID GLAND. *C. AT THE BOTTOM OF THE BRAIN. D. NONE OF THE ABOVE | 814 |
| THE THYROID GLAND IS LOCATED *A. BELOW THE VOICE BOX. B. ON TOP OF THE KIDNEYS. C. AT THE BOTTOM OF THE BRAIN. D. NONE OF THE ABOVE | 815 |
| THE PARATHYROID GLANDS ARE LOCATED A. ON TOP OF THE KIDNEYS. **B. BEHIND THE THYROID GLAND. C. IN THE PANCREAS. D. NONE OF THE ABOVE | 816 |
| THE ISLANDS OF LANGERHANS ARE LOCATED A. ON TOP OF THE KIDNEYS. *B. IN THE PANCREAS. C. BEHIND THE THYROID GLAND. D. NONE OF THE ABOVE | 0817 |
| THE ADRENAL GLANDS ARE LOCATED A. AT THE BOTTOM OF THE BRAIN. B. IN THE PANCREAS. *C. OH TOP OF THE KIDNEYS. D. NONE OF THE ABOVE | 818 |
| WHICH OF THE FOLLOWING HORMONES IS SECRETED BY THE PITUITARY GLANDO A. THYROXIN AB. GROWTH HORMONE C. PARATHORMONE D. ADRENALIN E. NONE OF THE ABOVE | 0819 |
| WHICH OF THE FOLLOWING HORMONES IS SECRETED BY THE THYROID GLANDO *A. THYROXIN B. GROWTH HORMONE C. PARATHORMONE D. INSULIN E. NONE OF THE AROVE | 0820 |

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SHOUTCH OF THE FOLLOWING HORMONES IS SECRETED BY THE PARATHYROID

| | CLANDSO | |
|------------|---|------------------|
| | A • THYROXIN | |
| | B. ADRENALIN C. INSULIN | |
| | *D. PARATHORMONF | |
| | E. NONE OF THE ABOVE | |
| | WHICH OF THE FOLLOWING HORMONES IS SECRETED BY THE ISLANDS OF LANGERHANSO *A. INSULIN B. ADRENALIN C. GROWTH HORMONE D. PARATHORMONE F. NONE OF THE AROVE | 0822 |
| | | |
| | WHICH OF THE FOLLOWING HORMONES IS SECRETED BY THE ADRENAL GLANDSO | 0823 |
| | A. INSULIN | |
| | R. PARATHORMONE C. THYROXIN | |
| | D. GROWTH HORMONE | |
| | *E. NONE OF THE ABOVE | • |
| <i>y</i> : | DIRECTIONS— MATCH THE FOLLOWING ITEMS BY PLACING A CIRCLE AROUND THE PROPER LETTER. A LETTER MAY BE USED MORE THAN ONCE. A. ADRENAL B. THYROID C. PITUITARY D. OVARY E. PANCREAS | 0036 |
| . (| A B* C D E CONTROLS RATE OF FOOD USAGE | 0985 |
| | A B C D* E CONTROLS FEMALE CHARACTERISTICS | 0987 |
| | A B C* D E CONTROLS GROWTH | 988 |
| | A* B C D E CONTROLS MUSCLE ACTION | 0989 |
| | A B C+ D E CONTROLS OTHER GLANDS | 990 |
| | A B C D E* CONTROLS SUGAR BALANCE | 0992 |
| | A* B C D E CONTROLS HEAT RATE | 993 |
| | A B C D* E CONTROLS PREGNANCY | 994 |
| | *************************************** | ***** |
| | THE STUDENT WILL APPLY HIS KNOWLEDGE OF THE MALFUNCTIONS OF THE | 2010 |
| | ENDOCRINE GLANDS BY IDENTIFYING THE MOST PROBABLE CAUSE FOR ABNORMAL CONDITIONS TO EXIST IN THE HUMAN BODY. %50 | 0048 |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| (C | A MALFUNTION OF WHICH GLAND OR GLANDS MAY RESULT IN A CHILD BECOMING A MIDGET A. ADRENAL GLANDS *B. PITUITARY GLAND C. THYROID GLAND | 0824 |

| D. PARATHYROID GLANDS E. NONE OF THE ABOVE A GOITER IS THE RESULT OF A. A MALFUNCTION OF THE ADRENAL GLANDS. B. A LACK OF IODINE IN THE DIET. C. A LACK OF INSULIN IN THE BODY. D. A MALFUNCTION OF THE THYROID. *E. BOTH B AND D F. BOTH A AND C | 825 0825 |
|---|-------------|
| THE EXTREMELY OVERWEIGHT PERSON MAY HAVE A MALFUNCTION OF A. THE PITUITARY GLAND. *B. THE THYROID GLAND. C. THE PARATHYROID GLANDS. D. THE ADRENAL GLANDS. E. NONE OF THE ABOVE F. ALL OF THE ABOVE | 0826 |
| SOFT BONES IS CHARACTERISTIC OF A. TOO LITTLE THYROXIN. B. A LACK OF INSULIN. #C. TOO MUCH PARATHORMONE. D. A LACK OF ADRENALIN. E. NONE OF THE ABOVE | 827 |
| WHEN A PERSON IS FRIGHTENED OR ANGRY, WHICH GLAND OR GLANDS COME INTO ACTIONO A. THE PITUITARY GLAND B. THE IDLANDS OF LANGERHANS C. THE PARATHYROID GLANDS *D. THE ADRENAL GLANDS E. NONE OF THE ABOVE | 0828 |
| WHICH GLAND, OR GLANDS BECAUSE OF ITS FUNCTION, IS REFERRED TO AS THE MASTER GLAND%SHO A. THYROID GLAND B. PARATHYROID GLANDS C. ADRENAL GLANDS *D. PITUITARY GLAND E. NONE OF THE ABOVE | 0829 |
| A MALFUNCTION OF THE THYROID GLAND MAY CAUSE WHICH OF THE FOLLOWINGO A. SPEEDING UP OF THE CELL ACTIVITY B. FASTER HEART BEAT C. LOSS OR GAIN IN WEIGHT D. SLOW DOWN IN BODY ACTIVITY *E. ALL OF THE ABOVE F. NONE OF THE ABOVE | 0830 |
| DIABETES IS THE RESULT OF A. LACK OF ADRENALIN PRODUCED. B. TOO MUCH PARATHORMONE. C. A MALFUNCTION OF THE THYROID GLAND. D. NOME OF THE ABOVE *F. LACK OF INSULIN PRODUCED. | 831 |



5. 你,你,你我们我们的,我们们的,我们们的,我们们的,你们们的,你们们的人们,你们们的人们,我们的人们的人们的,你们们的人们,你们们的人们的人们的人们的人们

FARTH SCIENCE GEOLOGY

| THE STUDENT WILL GAIN A KNOWLEDGE OF THE STRUCTURE OF THE HUMAN EAR BY RECALLING OR RECOGNIZING THE STRUCTURES. AND LOCATION OF THE VARIOUS PARTS. %10H | 0155 |
|--|------|
| THE HUMAN EAR IS DIVIDED INTO HOW MANY MAIN SECTIONSO A = 2 *B = 3 C = 4 D = 5 E = 6 | 1818 |
| THE AUDITORY MEATUS AND THE AURICLE MAKE UP WHAT IS KNOWN AS THE A. INNER EAR. B. MIDDLE EAR. *C. OUTER EAR. D. NONE OF THE ABOVE. E. ALL OF THE ABOVF. | 1819 |
| THE MALLEUS, INCUS, AND STAPES ARE THREE BONES THAT MAKE UP THE A. INNER EAR. *B. MIDDLE FAR. C. OUTER EAR. D. NONE OF THE ABOVE. E. ALL OF THE ABOVE. | 1820 |
| THE SEMICIRCULAR CANAL AND THE COCHLEA MAKE UP THE #A. INNER EAR. B. MIDDLE EAR. C. OUTER EAR. D. NONE OF THE ABOVE. | 1821 |
| A THIN FIBROUS MEMBRANE THAT CONDUCTS VIBRATIONS FROM THE AUD- ITORY MEATUS TO THE AUDITORY OSSICLES IS CALLED THE A. ROUND WINDOW. B. TYMPANIC MEMBRANE. C. EAR DRUM. D. OVAL WINDOW. *E. BOTH B AND C. | 1822 |
| VIBRATIONS PASS THROUGH THE AUDITORY OSSICLES IN WHICH OF THE FOLLOWING ORDERSO A. INCUS, MALLEUS, STAPES B. MALLEUS, STAPES, INCUS *C. MALLEUS, INCUS, STAPES D. STAPES, INCUS, MALLEUS E. NONE OF THE ABOVE | 1823 |
| THE THIN MEMBRANE BETWEEN THE MIDDLE EAR AND THE INNER EAR IS KNOWN AS THE A. EAR DRUM. **R. OVAL WINDOW. C. ROUND WINDOW. D. TYMPANIC MEMBRANE. E. NONE OF THE ABOVE | 1824 |
| THE ORGAN OF THE CORTI IS LOCATED IN THE A. COCHLEA. | 1825 |

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| B. COCHLEA CANAL. C. INNER EAR. *D. ALL OF THE ABOVE E. NONE OF THE ABOVE | |
|---|------------|
| A LIQUID KNOWN AS PERILYMPH IS FOUND IN THE A. VESTIBULAR CANAL. B. COCHLEAR CANAL. C. TYMPANIC CANAL. *D. BOTH A AND C F. ALL OF THE ABOVE | 1826 |
| A FLUID KNOWN AS ENDOLYMPH IS LOCATED IN THE A. VESTIBULAR CANAL. *B. COCHLEAR CANAL. C. TYMPANIC CANAL. D. BOTH A AND C. | 1827 |
| · ** ** ** ** ** ** ** ** ** ** ** ** ** | ' ***** |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF MINERALOGY BY IDENTIFY— ING THE CHEMICAL COMPOSITION, PHYSICAL CHARACTERISTICS AND EXAMPLES OF MINERALS. %68 | 0049 |
| WHICH OF THE FOLLOWING IS A TRUE STATEMENTO A. MINFRALS ARE MADE OF ROCK. B. MINERALS AND ROCKS ARE THE SAME THINGS. *C. ROCKS ARE MADE OF MINERALS. D. ALL ARE FALSE STATEMENTS. | 0808 |
| CHEMICAL ELEMENTS OR COMPOUNDS FOUND NATURALLY IN THE EARTH ARE A. IGNFOUS ROCKS. B. METAMORPHIC ROCKS. C. SEDIMENTARY ROCKS. *D. MINERALS. E. NONE OF THE ABOVE | 0809 |
| WHICH OF THE FOLLOWING IS *NOT* A MINERALO A. TALC *B. MARBLF C. PYRITF D. COPPER F. BOTH C AND D | 0810 |
| WHICH OF THE FOLLOWING IS AN EXAMPLE OF A MINERALO A. LAVA B. SANDSTONE C. GNFISS D. FELDSPAR *E. NONE OF THE ABOVE | 0811 |
| THE #HARDNESS* TEST IS USED TO IDENTIFY A. IGNEOUS ROCKS. B. METAMORPHIC ROCKS. *C. MINFRALS. D. ALL OF THE ABOVE | 812 |
| THE #STREAK* TEST IS USED TO IDENTIFY A. IGNEOUS ROCKS. B. SEDIMENTARY ROCKS. 74 | 813 |

#D. NONE OF THE ABOVE

| | · 我们我我们的证明,我们的证明,我们的证明,我们的证明,我们的证明,我们我们的证明,我们我们的证明,我们我们的证明,我们的证明,我们我们的证明。 | **** |
|-----|--|-------|
| ф.C | FINE STUDENT WILL DIFFERENTIATE BETWEEN THE THREE CLASSES OF ROCKS BY SELECTING CHARACTERISTICS AND EXAMPLES OF EACH CLASS. %90 | 0050 |
| • | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | ROCKS FORMED FROM MOLTEN MATERIALS ARE KNOWN AS A. METAMORPHIC. **B. IGNEOUS. C. SEDIMENTARY. D. MINERALS. E. NONE OF THE ABOVE | 0799 |
| | WHICH OF THE FOLLOWING IS *NOT* AN IGNEOUS ROCKO A. LAVA B. OBSIDIAN C. BASALT **D. SHALE E. ALL ARE IGNEOUS ROCKS | 0800 |
| • | WHICH OF THE FOLLOWING IS AN EXAMPLE OF AN IGNEOUS ROCKO A. CONGLOMERATE B. PYRITE *C. GRANITE D. LIMESTONE E. MARBLE | 0801 |
| | ROCKS FORMED FROM LAYERS OF SEDIMENT BFING PRESSED TOGETHER ARE CALLED A. METAMORPHIC. B. IGNEOUS. *C. SEDIMENTARY. D. MINERALS. E. NONE OF THE ABOVE | 0802 |
| | WHICH OF THE FOLLOWING IS *NOT* A SEDIMENTARY ROCKO **A. CALCITE A. CONGLOMERATE C. SANDSTONE D. SHALE E. SOFT COAL | 0803 |
| | WHICH OF THE FOLLOWING IS A SEDIMENTARY ROCKO A. MICA #3. CHALK C. OBSIDIAN D. QUARTZITE E. NONE OF THE ABOVE | .0804 |
| | NOCKS THAT WERE ONCE IGNEOUS OR SEDIMENTARY, BUT HAVE BEEN CHANGED BY HEAT AND PRESSURE ARE CALLED *A. METAMORPHIC. B. IGNEOUS. C. SEDIMENTARY. D. MINERALS. F. NONE OF THE AROVE | 0805 |

WHICH OF THE FOLLOWING IS *NOT* A METAMORPHIC ROCKO 0806 A. MARBLE B. HARD COAL C. GNFISS *D. CORUNDUM E. NONE OF THE AROVE WHICH OF THE FOLLOWING IS A METAMORPHIC ROCKO 0807 A. CORUNDUM *B. SLATE C. PUMICE D. ALL OF THE ABOVE E. NONE OF THE ABOVE OCEANOGRAPHY THE STUDENT CAN EVALUATE STATEMENTS ON OCEANOGRAPHY BY APPLYING 0159 KNOWLEDGE OF EROSION TO CHOOSE LOGICAL EXPLANATIONS OF A GIVEN PHENOMENA. %1 READ THE FOLLOWING STATEMENT. THEN CHOOSE THE LOGICAL EXPLANATION 1840 FOR THIS OCCURENCE FROM THE FOLLOWING LIST. THE OCEAN FLOOR IS VERY SIMILAR TO THE SURFACE OF THE LAND, ONLY THE OCEAN FLOOR IS COVERED WITH WATER. CONTRARY TO THIS SIMILAR-ITY, EROSION HAS ALTERED LAND FEATURES TO A GREATER DEGREE THAN THE OCEAN FLOOR. THE REASONS FOR THIS BEING JUSTIFIED ARE A. THE EROSION FORCES OF WIND AND SUN ARE WASHED AWAY ON THE FLOOR OF THE OCEAN LEVELING ITS SURFACE. THIS MAKES THE EFFECTS OF FROSION UNNOTICEABLE. R. THE OCEAN FLOOR IS FREE FROM ANY FORCES OF EROSION, AND, THEREFORE, HAS A NATURAL PROTECTION AGAINST ALTERATION OF ITS SURFACE FEATURES. *C. THE EROSION FORCES OF WIND, SUN, AND FALLING WATER ARE ONLY CONNECTED WITH LAND EROSION, WHEREAS, THE SEA HAS TO ONLY CONTEND WITH WATER EROSION. THE STUDENT CAN EVALUATE STATEMENTS ON SEAWEED AND ITS RELATION-0160 SHIP TO THE MAINTENANCE OF LIFE BY CHOOSING LOGICAL EXPLANATIONS. %10 CONSIDER THE FOLLOWING STATEMENT. 1841 THE FOOD SUPPLY HAS BEEN DRASTICALLY CUT. SCIENTISTS HAVE DECIDED THAT THE MOST CONVENIENT WAY TO AVOID STARVATION FOR THOUSANDS IS TO GATHER SEAWEED FROM THE OCEAN. THE FOOD SOURCES WERE FOUND TO ADEQUATELY SUPPLEMENT THE DIET.

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PROCEDURE.

76

FROM THE FOLLOWING CHOICES. SELECT THE JUSTIFICATION FOR THIS

CHEAPER TO ACCUMULATE THAN BEEF OR VEGETABLES.

MINERALS AND IN SOME VITAMINS.

*A. WE MAY USE SEAWEED FOR OUR FOOD SUPPLY BECAUSE IT IS RICH IN

B. WE MAY USE SEAWEED FOR OUR FOOD SUPPLY BECAUSE SEAWEED IS

THE EASTHIS DOSH ATTOM TO INCREASING PASTED THAN THE FOOD SUPPLY.

| "我必须。你没有特殊特征的转替的有效如此的特殊的特殊的特殊的特殊的特殊的特殊的特殊的特殊的特殊特殊的特殊的特殊的特殊的特 | *** |
|--|------|
| GIVEN INFORMATION ON SOLUTIONS: THE STUDENT CAM ANALYZE THE CONTENTS OF OCEAN WATER BY CHOOSING REASONS FOR THE MINERALS FOUND IN THE WATER: \$20 | 0161 |
| SCA WATER SOMETIMES TASTES SALTY AND DITTER. WE KNOW MINERALS ARE THAT WATER. THE REASON THESE DIMERALS ARE THERE, BUT *NOT* SEEN IS | 1842 |
| ### RAIN WATER FLOUD OVER THE SOIL DISSOLVING SOME OF THE MINERALS AND CARRYING THEM STHIS WATERS TO THE SEA. B. THE MINERALS ORIGINATE IN CLOUDS. AND WHEN IT RAINS THESE MINERALS RAID WITH SEA WATER. J. THE MINEPALS CRIGINATE FROM MARINE LIFE, BUT CHEMICAL REACTIONS IN THE WATER DISSOLVE THESE MINERALS. | |
| IN ARL THE WATER IN THE OCEAN WERE TO BE EVAPORATED. THE MINERAL | 1843 |
| TO MOULD EVAPORATE WITH THE WATER. OF WOULD REMAIN IN VERY SMALL QUANTITIES. TO WOULD REAMIN IN VARY LARGE QUANTITIES. | |
| 2.1 - 1.5 C. | **** |
| LAWS OF MOTTON | |
| STUDENT WILL APPLY THE PRINCIPLES INVOLVED IN NEWTON'S THREE US OF FORCE AND MOTION BY IDENTIFYING EXAMPLES WHICH SUPPORT OUT LAWS IN GIVEN EVERYDAY SITUATIONS. \$120 | 0051 |
| THE CT THE PHRASE THAT MEST COMPLETES THE STATEMENT. | 0010 |
| CON ROLLING DOWN HILL HITS A BUMP AND TURNS 45 DEGREES TO LEFT. THIS DEGREES SITUATION HAPPENS BECAUSE 4. THE HILL IS STEEP. 5. THE HILL IS BUMPY. 6. THE WAGON WHEELS HAVE HALL BEARINGS. 6. THE BUMP EXERTS A FORCE FROM THE SIDE ON THE WAGON. | 0657 |
| Fine Of Charles | |
| DESCRIPTION OF THE FOLLOWING IS WHOTH AN EXAMPLE OF NEWTON'S THIRD LAW | 0658 |
| ANCER DRIVES A ROTARY LAWN SPRINKLER. TWO CARS COLLIDS: AS NOT STEP FROM A ROYAL TO A TOWN TO A STEP FROM A STEP | |
| 1. AS YOU STED FROM A POW DOAT IT MOVES AWAY FROM YOU. 1. A ROCKET LIFTS OFF, 2. JOHE OF THE ABOVE | |
| AMD A DOG RIDING IN A MOVING AUYOMOBILE FALL OFF THE SEAT ONE CAR IS SUDDINLY BRAKED, BECAUSE THE BOY MOVES TWICE AS FIRE DOG. IT CAN BE DEDUCED THAT THE DOG. IS MORE AGILE THAN THE BOY. HAS WEARING A SEAT BELT. P. MAS HAD EXPERIENCE FAULING OFF THE SEAT. | 0659 |
| The second of th | |

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*D. WEIGHS LESS THAN THE ROY. E. NONE OF THE ABOVE THE TENDENCY FOR AN OBJECT AT REST TO REMAIN AT REST IS A STATE-0781 MENT OF *A. NEWTON'S 1ST LAW OF MOTION. B. NEWTON'S 2ND LAW OF MOTION. C. NEWTON+S 3RD LAW OF MOTION+ D. NONE OF THE ABOVE WHEN A MAGICIAN PULLS A TABLE CLOTH FROM UNDER A TABLE FULL OF 0786 DISHES AND LEAVES THE DISHES ALL IN PLACE, HE HAS ACTUALLY DEMONSTRATED *A. NEWTON'S 1ST LAW OF MOTION. B. NEWTON'S 2ND LAW OF MOTION. C. NEWTON'S 3RD LAW OF MOTION. D. NONE OF THE ABOVE 0787 IF A BASEBALL PLAYER HITS A BALL VERY HARD, IT WILL TRAVEL A GREAT DISTANCE. IF HE ONLY HITS THE BALL LIGHTLY. IT WILL NOT TRAVEL AS FAR. THESE RESULTS CAN BE EXPLAINED BY A. NEWTON.S 1ST LAW OF MOTION. *B. NEWTON,S 2ND LAW OF MOTION. C. NEWTON+S 3RD LAW OF MOTION+ D. NONE OF THE ABOVE NEWTON'S 3RD LAW OF MOTION EXPLAINS WHICH OF THE FOLLOWING 0786 OCCURRENCES. A. FALLING FORWARD WHEN THE CAR COMES TO A SUDDEN STOP *B. THE LIFT OFF AND ACCELERATION OF A ROCKET C. GOING SLOWLY ON A BICYCLE WHILE PEDDLING GENTLY D. BEING PUSHED TO THE SIDE OF A CAR WHEN IT GOES AROUND A CURVE ,0789 A BALLOON IS BLOWN UP AND ATTACHED TO A STRING BY TWO RINGS. IF THE AIR IS ALLOWED TO ESCAPE FROM THE BALLOON IN ONE DIRECTION IN WHAT DIRECTION, IF ANY, WILL THE BALLOON MOVED A. IT WILL MOVE IN THE SAME DIRECTION. B. THE BALLOON WILL NOT MOVE. *C. IT WILL MOVE TOWARD THE OPPOSITE DIRECTION. D. NONE OF THE AROVE. 0790 WHAT LAW OF MOTION IS REPRESENTED BY THE ABOVE DEMONSTRATIONO A. THE MASS IS DIRECTLY PROPORTIONAL TO THE ACCELERATION OF THE MASS. B. TENDENCY FOR AN OBJECT AT REST TO STAY AT REST. *Co FOR EVERY ACTION THERE'S AN EQUAL AND OPPOSITE REACTION' D. NONE OF THE AHOVE UD52 THE STUDENT WILL DISTINGUISH BETWEEN VARIOUS OBJECTS OF THE UNIVERSE %PLANET, STARS, COMETS, CONSTELLATIONSD BY MATCHING THE CORRECT OBJECT TO A GIVEN DESCRIPTION. %84 ASSUME YOU ARE TRAVELING THROUGH SPACE. SELECT THE RESPONSE THAT 0029

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DESCRIBES THE OBJECTS YOU PASS OR LAND ON.

YOU ARE NEARING A CELESTIAL BODY THAT HAS 12 SMALLER BODIES

REVOLVING AROUND. AS YOU APPROACH. YOU NOTICE A LARGE RED SPOT

0791

ON ITS SURFACE. YOU ARE APPROACHING A. A GROUP OF COMETS. *B. THE PLANET JUPITER. C. THE STAR, ALPHA CENTARI. D. THE PLANET VENUS. E. A DISTANT SUN. YOU APPROACH ANOTHER HEAVENLY BODY ON YOUR JOURNEY. THERE IS A 0792 VARIATION IN THE SURFACE COLOR WITH LARGE REDDISH AREAS AND BANDS OF GREEN. YOU LAND AND EXPLORE NORTHWARD FROM YOUR LANDING POINT. YOU COME UPON WHAT SEFMS TO BE A GLACIER AND THEN YOU REALIZE THAT YOU ARE PROBABLY ON A. THE PLANET MERCURY. . R. THE SUN. C. AN ASTEROID. *D. THE PLANET MARS. E. THE PLANET NEPTUNE. YOU HAVE JUST PASSED BETWEEN TWO OBJECTS THAT APPEAR QUITE 0793 SIMILAR IN SIZE AND COLOR. THEY BOTH ARE GREEN BUT ONE SEEMS TO ROTATE AT RIGHT ANGLES TO THE OTHER. WHAT HAVE YOU PASSED BETWEENO A. TWO COMETS TRAVELING OPPOSITE EACH OTHER B. TWO ASTEROIDS IN DIFFERENT ORBITS *C. THE PLANETS NEPTUNE AND URANUS D. TWO DEAD STARS F. NONE OF THE ABOVE 0794 YOU COME NEAR A BALL OF EXPLODING GASES. YOU NOTICE THERE IS A TREMENDOUS AMOUNT OF LIGHT GIVEN OFF FROM THE OBJECT. YOU HAVE JUST SEEN *A. A STAR. B. A PLANETOID. C. A PLANET. D. ALL OF THE ABOVE E. NONE OF THE ABOVE ACCORDING TO THE CHARTS IN YOUR SPACESHIP, YOU ARE ON A COURSE 0795 FROM RIGEL TO BETELGEIJSE. WHERE IS YOUR COURSE TAKING YOUR A. FROM ONE GALAXY TO ANOTHER B. BETWEEN THE MOONS OF MARS . C. ACROSS THE SURFACE OF OUR MOON *D. THROUGH THE CONSTELLATION ORION E. NONE OF THE ABOVE YOU ARE WITHIN A LIGHT YEAR OF ALPHA CENTARI. YOU ARE EXCITED 0796 BECAUSE YOU KNOW THAT ALPHA CENTARI IS A. A. THE SMALLEST PLANET. B. THE PLANET FARTHEST FROM THE SUN. C. THE OLDEST COMET KNOWN. D. THE LARGEST ASTEROID KNOWN. *E. NONE OF THE ABOVE AS YOU APPROACH ANOTHER OBJECT YOU MUST FIRST PASS THROUGH 0797 A VERY DENSE CLOUD COVER. THE CLOUDS REFLECT LIGHT SO MUCH THAT THE OBJECT APPEARS TO BE THE BRIGHTEST IN THE SKY. YOU ARE ABOUT TO LAND ON A. THE SUN.

ERIC

. B. HALLEY'S COMET.

D. THE STAR. BETELGUESE.

*C. VENUS.

E. MONE OF THE ABOVE

0798 YOU HAVE JUST LANDED ON ANOTHER HEAVENLY BODY THAT HAS LARGE AMOUNTS OF WATER PRESENT AND THERE ARE INDICATIONS OF BOTH PLANT AND ANIMAL LIFE. YOU HAVE PROBABLY LANDED ON A. PLUTO. B. VENUS. .C. MARS. D. SATURN. *E. NONE OF THESE SPACE TRAVEL THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE TWO TYPES OF 0053 ROCKET ENGINES AND THEIR PARTS BY SELECTING CHARACTERISTIC DIFFERENCES IN ROCKET PROPELLANTS. %50 SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. 0010 A PROPELLANT CONSISTS OF AN OXIDIZER AND A FUEL. THE OXIDIZER IS 0781 NECESSARY BECAUSE A. A FUEL NEEDS AN OXIDIZER TO BURN. B. THERE IS NO OXYGEN IN SPACE. C. IT.S USED FOR COOLING PURPOSES. *D. ONLY A AND B ABOVE F. ALL OF THE ABOVE THE EXHAUST NOZZLE GIVES ESCAPING GAS MOLECULES MAXIMUM VELOCITY. 078; THIS IS A RESULT OF A. THE SIZE OF THE NOZZLE. B. THE LENGTH OF THE NOZZLE. *C. THE SHAPE OF THE NOZZLE. D. THE WIDTH OF THE NOZZLE. E. MONE OF THE ABOVE THRUST IN A ROCKET DEPENDS ON 783 A. THE AMOUNT OF SOLID PROPELLANT PRESENT. B. THE LENGTH OF FIRING TIME. *C. THE BURNING SURFACE EXPOSED. D. NONE OF THE ABOVE WHICH OF THE FOLLOWINGS IS *NOT* CHARACTERISTIC OF A LIQUID-0784 CODELLANT ROCKETO A. GREAT AMOUNT OF THRUST PER POUND OF FUEL B. MUCH HEAT GENERATED C. EASY CONTROL OF FLIGHT *D. SIMPLIFIED ROCKET DESIGN

ERIC

%10¹ .

WEATHER

| | DIRECTIONSCHOO | DSE THE LETTER BY THE CORRECT DESCRIPTION. | 0065 |
|-----------|--|---|------|
| | B. LARGE M C. BILLOWER D. THIN, W E. DULL DR F. LOW ALT G. SMALL, R H. MIXED AR I. LOW ALT | TITUDE, ICE CRYSTAL, WHITISH VEIL IDDLE ALTITUDE, WATER CLOUD, DARK & RAGGED. D TOPS, LOW ALTITUDE ISPY, OFTEN IN STREAKS AB GREY OR BLUISH SHEET, MIDDLE ALTITUDE ITUDE, GREY LAYER BILLOWED, HIGH ALTITUDE CLOUD LTITUDE, DENSE, TALL, BILLOWED, WHITE TO INKY BLACK ITUDE, ROLL SHAPED ELEMENTS IN ORDERLY GROUPS MASSES OR ROLLS, MIDDLE ALTITUDE | |
| | CIRRUS | *D | 1724 |
| | CIRROCUMULUS | *G | 1725 |
| | CIRROSTRATUS | *A | 1726 |
| • | ALTOCUMULUS | *J · | 1727 |
| | ALTOSTRATUS | *E | 1728 |
| | NIMBOSTRATUS | *B | 1729 |
| | STRATOCUMULUS | *1 | 1730 |
| | STRATUS | * F | 1731 |
| | CUMULUS | *C | 1732 |
| (| CUMULONIMBUS | *H | 1733 |
| `• | <u> </u> | | |
| | | | ~~~ |
| | | L ANALYZE CERTAIN WEATHER CONDITIONS AND BY SELECTING FROM THEM WHAT CONDITIONS WILL | 0056 |
| | SELECT THE WORD | OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 8000 |
| | | | 0722 |
| | AT POSITION A T PREDICT WILL HA A. NO CHANGE B. PRESSURE W *C. PRESSURE W | VILL RISE. | 0723 |
| | CONDITIONS WITH A. COOLER TEN | SSIBILITY OF RAIN MPERATURES | 0724 |
| d by ERIC | | 75, 81 | |

| D. NO CHANGE IN WEATHER CONDITIONS *E. BOTH A AND B F. NONE OF THE ABOVE | |
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| AT POINT A THE WIND DIRECTION IS NW. IN THE NEXT 24-48 HOURS, WHAT. IF ANYTHING, WOULD YOU EXPECT TO HAPPEN TO THE WIND DIRECTIONO *A. CHANGE IN DIRECTION AFTER FRONT PASSES B. NO CHANGE IN DIRECTION C. CHANGE IN DIRECTION BEFORE FRONT PASSES D. NOT ENOUGH INFORMATION TO PREDICT | 0725 |
| WHAT WILL THE TEMPERATURE BE AT POINT B WITHIN THE NEXT 24 HOURSO A. 75 DEGREES B. 80 DEGREES C. 30 DEGREES *D. NOT ENOUGH INFORMATION GIVEN TO PREDICT | 0726 |
| *************************************** | **** |
| USING THE MAP SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0026 |
| DURING THE NEXT 24 HOURS THERE WILL PROBABLY BE A. A LOW PRESSURE AREA OVER THE GREAT LAKES. B. A HIGH PRESSURE AREA OVER THE GULF OF MEXICO. C. RAIN THROUGHOUT MOST OF AREA B. #D. ALL OF THE ABOVE E. NONE OF THE ABOVE | 0757 |
| SEVERE WEATHER COULD OCCUR DURING THE NEXT 24 HOURS IN AREA A. A **R. B C. C D. ALL OF THE ABOVE | 0758 |
| SEVERE WEATHER COULD BE THE RESULT OF *A. THE MEFTING OF A WARM AND A COLD FRONT. B. THE MOVEMENT OF THE HIGH PRESSURE AREA. C. BOTH AIR MASSES BECOMING STATIONARY. D. THE NORTHWARD MOVEMENT OF A LARGE COLD FRONT. E. NONE OF THE ABOVE | 759 |
| DURING THE NEXT 24 HOURS THERE WILL PROBABLY BE RAIN IN A. NEW YORK. B. CHICAGO. C. MIAMI. D. ST. LOUIS. *E. BOTH B AND D | 0760 |
| DURING THE NEXT 48 HOURS THERE WILL PROBABLY BE RAIN IN A. NEW YORK. B. TAMPA. C. PITTSBURG. D. DENVER. *F. BOTH A AND C | 0761 |

| | THE STUDENT WILL ANALYZE A DIAGRAM OF PLANETARY WINDS BY INDICAT- ING THE TYPES OF PRESSURE AREAS THAT ARE CREATED AND THEIR CHARACTERISTICS. %411 | 0057 |
|------|--|------|
| | DIRECTIONS ANSWER THE FOLLOWING QUESTIONS BY REFERRING TO THE DIAGRAM. NOTE. USE ANY STANDARDIZED DIAGRAM OF PLANETARY WINDS. | 0037 |
| | AS INDICATED BY THE DIAGRAM, THE AIR IS RISING AT THE EQUATOR. WHAT KIND OF PRESSURE SYSTEM WOULD BE FOUND HEREO A. VARIABLE B. NONE *C. LOW D. HIGH | 0995 |
| | THE AIR RISES AT THE EQUATOR BECAUSE A. IT IS DISPLACED BY THE AIR MASSES FLOWING FROM THE HORSE LATITUTES. B. THE AIR MAKES UP A HIGH PRESSURE SYSTEM AND THEREFORE RISES. **C. THE AIR IS WARMEST HERE AND THEREFORE RISES. | 996 |
| | D. THE SUN'S GRAVITATIONAL PULL IS GREATEST AT THE FOUATOR AND CAUSES THE ATMOSPHERE TO RISE. | |
| | THE PRESSURE SYSTEM AT THE NORTH POLF WOULD BE *A. HIGH. B. LOW. C. NONF. D. VARIABLE. | 0997 |
| (| BETWEEN B AND C THE REGION IS REFERRED TO AS *PREVAILING WEST-ERLIES** YOU WILL NOTICE FROM THE DIAGRAM THAT THE AIR IS RISING IN THIS REGION. THIS IS CAUSED BY *A. THE COOLER AIR FROM THE POLES REGION PUSHES THE WARMER AIR UP. B. A HIGH PRESSURE SYSTEM PRESENT IN THIS REGION. C. A LOW PRESSURE SYSTEM PRESENT IN THIS REGION. | 0998 |
| | D. THE WIND COMES FROM THE WEST CAUSING IT TO RISE. | |
| | *************************************** | **** |
| | THE STUDENT WILL DEMONSTRATE COMPREHENSION OF THE GREENHOUSE EFFECT BY IDENTIFYING CONDITIONS OR SITUATIONS WHICH CHARACTERIZE THIS EFFECT. %60 | 0058 |
| | WHICH OF THE FOLLOWING STATEMENTS IS TRUE IN TERMS OF THE GREEN-HOUSE EFFECT. A. THE EARTH, S SURFACE IS WARMED BY HEAT RADIATING FROM THE SUN. | 0999 |
| | B. THE ATMOSPHERE BECOMES WARMED AS THE SUNLIGHT PASSES THROUGH IT WHICH IN TURN WARMS THE SURFACE. *C. THE SUNLIGHT CHANGES TO HEAT WHEN IT HITS THE SURFACE WHICH | |
| | IN TURN WARMS THE ATMOSPHERE. D. THE SUNLIGHT CHANGES TO HEAT AS IT PASSES THROUGH THE ATMOSPHERE BUT IT WARMS THE SURFACE FIRST WHICH, IN TURN WARMS THE ATMOSPHERE. | |
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THE GREENHOUSE EFFECT.

RADIATION DOES NOT.

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WHICH OF THE FOLLOWING IS A PRINCIPLE WHICH IS TRUE IN TERMS OF

*A. LIGHT RADIATION PASSES THROUGH THE ATMOSPHERE BUT HEAT

B. SUNLIGHT IS REFLECTED BACK TO SPACE BUT HEAT RADIATION PASSES THROUGH THE CLOUDS. C. HEAT PASSES THROUGH BUT THE SUNLIGHT IS KEPT IN BY THE EARTH . S ATMOSPHERE . C. THE GREENHOUSE EFFECT OCCURS IN THE ABSENCE OF AN ATMOSPHERE AS WELL AS WITH AN ATMOSPHERE. IN WHICH OF THE FOLLOWING INSTANCES COULD THERE *NOT* BE A GREEN-1001 HOUSE EFFECTO #A. ON THE MOON B. IN A PARKED CAR WITH THE WINDOWS ROLLED UP C. IN A GREENHOUSE D. AT AN INDOOR POOL ENCLOSED BY GLASS F. IN THE BACK YARD THE STUDENT WILL SHOW COMPREHENSION OF THE LAWS OF NATURE BY 0059 IDENTIFYING DESCRIPTIVE FACTS AND CHARACTERISTICS ABOUT THE LAWS OF NATURE. %2B A LAW OF NATURE 15 1002 A. A STATEMENT MADE BY SOME DISTINGUISHED SCIENTIST. *R. A GENERALIZATION BASED ON EXPERIMENTS. C. AN EXPERIMENTAL CONCLUSION. D. THE RESULTS OF ONE EXPERIMENT. A LAW OF NATURE CAN 1003 *A. BF CHAMGED TO ACCOUNT FOR NEW EVIDENCE. B. ONLY BE WRITTEN BY NATURE. C. NEVER BE REPEALED. C. NEVER HAVE LIMITS PUT ON IT. MATTER THE STUDENT WILL DEMONSTRATE HIS COMPREHENSION OF THE PROPERTIES 0179 OF MATTER BY SELECTING FROM A LIST OF ALTERNATIVES THAT PROPERTY WHICH WILL BE **MOST* OR *LEAST* USEFUL IN IDENTIFYING A GIVEN SAMPLE OF MATTER. \$40 IF A STUDENT WERE GIVEN AN UNKNOWN LIQUID TO IDENTIFY THROUGH ITS 1945 PROPERTIES. WHICH OF THE FOLLOWING LIST OF ALTERNATIVE PROPERTIES WOULD BE THE *LEAST* HELPFULO A. THE DENSITY OF THE LIQUID *R. THE VOLUME OF THE SAMPLE C. THE BOILING POINT OF THE LIQUID D. THE FREEZING POINT OF THE LIQUID F. THE SOLUBILITY OF CFRTAIN COMMON SOLIDS IN THE LIQUID IF YOU WERE GIVEN A SAMPLE OF AN IJNKNOWN GAS AND IF YOU HAD 1946 THE NECESSARY EQUIPMENT TO DO ANY OF THE PROCEDURES LISTED BELOW IN ORDER TO DETERMINE THE PROPERTIES, WHICH PROCEDURE WOULD YOU

NOT DO BECAUSE THE PROPERTY THAT IT WOULD DETERMINE WOULD BE

B. FIND THE EMPEZING POINT OF THE SAMPLE AFTER IT HAS BEEN

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THE *LEAST* HELPFULO

LIQUIFIED

A. FIND THE DENSITY OF THE GAS

- C. FIND THE FLAMMABILITY OF THE GAS
- *D. FIND THE THERMAL EXPANSION OF THE GAS
- E. BUBBLE THE GAS THROUGH LIME WATER

THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE MAKEUP OF AN ATOM 0060 BY IDENTIFYING ITS COMPONENT PARTS AND ITS PHYSICAL AND CHEMICAL CHARACTERISTICS. %7# SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. 0010 BOTH ELECTRONS AND PROTONS HAVE ELECTRICAL CHARGES. THESE 0691 CHARGES ARE *A. OF EQUAL STRENGTH AND OPPOSITE. B. OF EQUAL STRENGTH AND THE SAME. C. OF UNEQUAL STRENGTH AND OPPOSITE. D. OF UNEQUAL STRENGTH AND THE SAME. BECAUSE A NEUTRON IS MADE UP OF AN ELECTRON AND A PROTON, IT HAS 0692 A. A NEGATIVE NET CHARGE. R. A POSITIVE NET CHARGE. *C. NO NET CHARGE. D. A NEUTRAL CHARGE. E. TWICE AS MUCH ELECTRICAL STRENGTH AS AN ELECTRON OR PROTON. TWO OF THE 3 BASIC PARTICLES IN AN ATOM HAVE SIMILAR MASS WHICH 0694 IS APPROXIMATELY 1800 TIMES GREATER THAN THAT OF THE 3RD PARTICLE. THESE 2 PARTICLES ARE A. ELECTRON AND NEUTRON. B. FLECTRON AND PROTON. *C. PROTON AND NEUTRON. FROM THE RELATIVE WEIGHTS AND ACTIVITIES OF THE 3 BASIC ATOM 0695 PARTICLES, ONE CAN CONCLUDE THAT THE MASS OF AN ATOM IS CONCEN-TRATED IN THE A. FLECTRON. R. PROTON. *C. NEULEUS. D. NEUTRON. THE MASS OF HYDROGEN IS 1 RECAUSE IT HAS ONE PROTON IN ITS 0696 NUCLEUS. IF AN ATOM HAS 2 PROTONS AND 2 NEUTRONS IN ITS NUCLEUS. HOW IS ITS MASS RELATED TO THAT OF HYDROGENO A. 2 TIMES GREATER *R. 4 TIMES GREATER C. THE SAME AS D. CAN, T TELL BY INFORMATION GIVEN THE NEUTRON, THOUGH SIMILAR IN WEIGHT TO THE PROTON, IS SLIGHTLY 0697 HEAVIER THAN THE PROTON. THIS IS BECAUSE IT IS MADE UP OF A. A POSITIVE AND A NEGATIVE FLECTRICAL CHARGE.



8. A NFUTRAL PARTICLE.
*C. AN FLECTRON AND PROTON.

| COMPONENT PARTS OF THE ATOM BY SELECTING THE DIAGRAM THAT IDENTIFIES THE CORRECT LOCATION OF THE PROTONS. ELECTRONS AND NEUTRONS. %10 | |
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| SFLECT THE DIAGRAM THAT CORRECTLY ANSWERS THE STATEMENT. MAKE FOUR DIAGRAMS WITH B HAVING PROTON AND NEUTRON IN NUCLEUS AND ELECTRON OUTSIDE. VARY THE OTHER DIAGRAMS. | 002 c) |
| THE BASIC STRUCTURE OF THE ATOM CAN BE REPRESENTED BY WHICH ONE OF THE FOLLOWING DIAGRAMSO %P EQUALS PROTON; N EQUALS NEUTRON F FQUALS ELECTRONS A. **B. C. D. | 0667 |
| *************************************** | ***** |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE TERMS ATOMIC WEIGHT AND ATOMIC NUMBER BY MATCHING EACH TERM WITH ITS CORRECT DEFINITION. % II | 0062 |
| THE MASS OF AN ATOM OF ANY ELEMENT IN RELATION TO A MASS OF THE ATOM OF CARBON-12 TAKEN AS 12 UNITS IS CALLED THE #A. ATOMIC WEIGHT B. ATOMIC NUMBER | 1741 |
| THE NUMBER OF PROTONS IN AN ATOMIC NUCLEUS, OF THE POSITIVE CHARGE OF THE NUCLEUS IS CALLED THE A. ATOMIC WEIGHT **B. ATOMIC NUMBER | 1742 |
| *************************************** | ***** |
| THE STUDENT WILL DEMONSTRATE COMPREHENSION OF ATOMIC WEIGHT AND ATOMIC NUMBER BY SELECTING THE DIAGRAM FOR GIVEN ATOMIC WEIGHT AND NUMBERS OR THE CORRECT ATOMIC WEIGHT AND NUMBER FOR A GIVEN DIAGRAM. %41 | 0063 |
| SELECT THE DIAGRAM THAT CORRECTLY ANSWERS THE STATEMENT. MAKE FOUR DIAGRAMS WITH C THE CORRECT ONE HAVING 6 PROTONS AND NEUTRONS IN NUCLEUS AND 6 ELECTRONS OUTSIDE THE NUCLEUS. VARY THE OTHER DIAGRAMS. | 0020 |
| AN ATOM HAS 6 ELECTRONS. 5 NEUTRONS. AND 6 PROTONS. THIS STRUCTURE CAN BE REPRESENTED BY WHICH OF THE FOLLOWING DIAGRAMSO %N FQUALS NEUTRON. P FQUALS PROTON. O FQUALS ELECTROND A. B. #C. D. | n668 |
| SFLECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. | 0010 |
| AN ATOM HAS AN AT. NUMBER OF 10 AND AN AT. WT. OF 24. IT HAS IN ITS STRUCTURE | 0669 |
| *A. 10 ELECTRONS AND 10 PROTONS AND 14 NEUTRONS. B. 10 PROTONS AND 14 NEUTRONS AND 14 ELECTRONS. C. 24 PROTONS AND 10 NEUTRONS AND 24 ELECTRONS. | |
| | |

D. 10 PROTONS AND 14 NEWTRONS.

| | * REPRESENTING THE CORRECT ONE. 2 NEUTRONS IN THE NUCLEUS AND |
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| SELECT THE DIAGRAM BELOW THAT IN NUMBER OF 3 AND AN ATOMIC WEIGHT A. B. *C. D. | REPRESENTS AN ATOM WITH AN ATOMIC 067 |
| *************** | · ************************************ |
| THE STUDENT WILL DEMONSTRATE KI AN ATOM BY SELECTING THE MAXIMU IN THE K,L,M,N,O ENERGY LEVELS | NOWLEDGE OF THE ENERGY LEVELS OF 006 JM NUMBER OF ELECTRONS THAT APPEAR OF AN ATOM \$50 |
| USING THE PERIODIC TABLE. SELECTION THE ENERGY LEVEL CAN HOLD | T THE MAXIMUM NUMBER OF ELECTRONS 002 |
| K FNERGY LEVEL A. 1 *B. 2 C. 3 D. 4 | . 67 |
| L ENERGY LEVEL A• 2 B• 5 *C• 8 D• 18 | 67 |
| M ENERGY LEVEL A• 2 B• 16 *C• 18 D• 8 | 67 |
| N FNERGY LEVFL *A• 32 B• 18 C• 24 D• 16 | 67 |
| O FNERGY LEVEL A. 8 *B. 32 C. 18 D. 24 | 67 |



THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE PERIODIC TABLE OF ELEMENTS BY IDENTIFYING ATOMIC WEIGHT, ATOMIC NUMBER, ELECTRONIC STRUCTURE AND RELATIVE SIZE OF GIVEN ATOMS. %188

| LECT THE CORRECT ANSWED | 21 |
|---|------------------------------|
| WHAT IS THE ATOMIC NUMBER OF SODIUMO A. 23 B. 9 C. 1 | 563 |
| D. 3 #F. NONE OF THE ABOVE | |
| THE FLEMENT MAGNESIUM BELONGS TO WHICH PERIODO A. 1 B. 2 *C. 3 D. 4 E. NONE OF THE ABOVE | 0564 |
| WHAT IS THE CHEMICAL SYMBOL FOR THE ELEMENT POTASSIUMO *A | 0565 |
| WHICH ELEMENT DOES NOT BELONG TO THE HALOGEN FAMILY %GROUPDO . *A. SODIUM R. CHLORENF C. FLUORINF D. BROMINF F. ALL OF THE ABOVE | 0566 |
| HOW MANY SHELLS DOES AN ATOM OF ALUMINUM HAVEO A. 1 R. 2 *C. 3 D. 4 F. NONE OF THE ABOVE | 0567 |
| HOW MANY ELECTRONS DOES AN ATOM OF SULFUR HAVE IN ITS OUTER SHELLO A. 2 B. 4 *C. 6 D. 8 F. NONE OF THE ABOVE | 0568 |
| HOW MANY ELECTRONS DOES AN ATOM OF CHLORINE HAVE IN ITS *L* SHELLO A. 2 B. 4 C+ 6 *Da 8 F. NONE OF THE ABOVE | 0569 |
| # # # # # # # # # # # # # # # # # # # | * * * * * * * * |
| USING THE PERIODIC CHART OF THE ELEMENTS SELECT THE CORRECT CHOICE TO THE FOLLOWING ITEM. | 0018 |
| SODIUM AND POTASSIUM ARE CONSIDERED TO BE IN THE SAME FAMILY OF ELEMENTS BECAUSE THEY HAVE THE SAME NUMBER OF | 0711 |

B. ENERGY LEVELS. *C. ELECTRONS IN THE OUTER ENERGY LEVEL. D. NONE OF THE ABOVE -- POTASSIUM AND CALCIUM ARE IN THE SAME *PERIOD* OF ELEMENTS 0712 BECAUSE THEY HAVE THE SAME NUMBER OF A. ELECTRONS IN EACH ENERGY LEVEL. B. ENERGY LEVELS. *C. ELECTRONS IN THE OUTER ENERGY LEVEL. D. NONE OF THE ABOVE WHAT CAN YOU INFER ABOUT THE PROPERTIES OF SULFUR FROM ITS 0713 POSITION IN THE PERIODIC TABLED A. DIFFERENT FROM OXYGEN B. SIMILAR TO OXYGEN C. DIFFERENT FROM PHOSPHORUS AND CHLORINE D. NONE OF THE ABOVE *E. ALL OF THE ABOVE A PERIODIC ARRANGEMENT OF ELEMENTS ON THE PERIODIC TABLE TELLS 0714 US THAT THE PROPERTIES OF FLEMENTS A. DEPEND ON THEIR STRUCTURE. *R. REPEAT THEMSELVES. C. ARE RELATED TO THE ATOMIC NUMBER. D. DEPEND ON THE NUMBER OF ELECTRONS. THE STUDENT WILL DIFFERENTIATE BETWEEN GROUPS OF ELEMENTS WITHIN 0066 THE PERIODIC TABLE OF ELEMENTS BY IDENTIFYING SIMILAR CHEMICAL AND PHYSICAL CHARACTERISTICS %PERIODICITY OF GROUPS OF ELEMENTS. %111 USING THE PERIODIC CHART OF THE ELEMENTS SELECT THE CORRECT 0018 CHOICE TO THE FOLLOWING ITEM. DETERMINE WHICH OF THE FOLLOWING STATEMENTS IS TRUE. 0699 A. ARGON IS LARGER THAN CALCIUM. .B. CARBON IS SMALLER THAN HELIUM. *C. ALUMINUM AND PHOSPHORUS ARE APPROXIMATELY THE SAME SIZE. .D. COPPER IS LARGER THAN IRON. THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE STRUCTURE OF AN 0067 ELEMENT AND COMPOUND BY IDENTIFYING PROPERTIES POSSESSED BY EACH STRUCTURAL VARIATION. %211 A COLLECTION OF ATOMS OF ORE TYPE WHICH CANNOT BE 1743 DECOMPOSED INTO ANY SIMPLER UNITS BY ANY CHEMICAL TRANSFORMATION BUT WHICH MAY SPONTANEOUSLY CHANGE INTO OTHER UNITS BY RADIOACTIVE PROCESSES IS CALLED A A. MOLECULE *B. ELEMENT C. COMPOUND

A. FLECTRONS IN FACH ENERGY LEVEL.

ERIC

A HOMOGENEOUS, PURE SUBSTANCE COMPOSED OF TWO OR MORE ESSENTIALLY DIFFERENT CHEMICAL FLEMENTS,

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WHICH ARE PRESENT IN DEFINITE PROPORTIONS IS CALLED A

A. ATOM

B. MOLECULE

*C. COMPOUND

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| THE STUDENT WILL APPLY THIS KNOWLEDGE OF ELEMENT, COMPOUND AND MIXTURE BY DECIDING THE FORM OF MATTER BE DISCUSSED WHEN GIVEN A DESCRIPTION. %311 | 0157 |
| TWO ATOMS OF HYDROGEN AND ONE ATOM OF OXYGEN CAN BE BONDED TOGET- HER TO FORM A MOLECULE OF HYDROGEN OXIDE, COMMONLY KNOWN AS WATER, THIS FORM OF MATTER IS A %No *A. COMPOUND. B. ELEMENT. C. MIXTURE. | 1836 |
| MATTER X IS MADE UP OF ONE KIND OF PARTICLE, ATOMS OF X. THIS FORM OF MATTER IS A *AND A. COMPOUND. **B. ELEMENT. C. MIXTURE. | 1837 |
| THE COMBINATION OF GASES INCLUDING NITROGEN, OXYGEN, CARBON DIOXIDE, AND WATER VAPOR IS COMMONLY KNOWN AS AIR. THIS FORM OF MATTER IS A MAND A. COMPOUND. R. ELEMENT. **C. MIXTURF. | 1838 |
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| THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF ELEMENTS, COMPOUNDS AND MIXTURES BY IDENTIFYING PROPERTIES AND EXAMPLES OF EACH. %31 | 0068 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| WHICH OF THE FOLLOWING COATINGS MUST BE AN ELEMENT% A. CHOCOLATE ON AN ICE CREAM BAR R. PAINT ON A SHUTTER C. VENEER ON A DESK **D. PLATING ON A SPOON F. NONE OF THE ABOVE | 0570 |
| WHICH OF THE FOLLOWING COMPONENTS OF A STORAGE BATTERY MUST BE A COMPOUNDO A. ELECTRODES B. PLATES C. CASING *D. ACID F. ALL OF THE ABOVE | 0571 |

WHICH OF THE FOLLOWING HOUSEHOLD ITEMS *MUST* BE A MIXTUREO

A. BAKING SODA %SODIUM BICARBONATER

A. WATER %H OD

C. BORIC ACID

*D. STERLING SILVER
F. ALL OF THE ABOVE

| | *************************************** | ***** |
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| The same of the sa | THE STUDENT WILL DEMONSTRATE A KNOWLEDGE OF CHEMICAL SYMBOLS FOR ELEMENTS BY MATCHING THE SYMBOL OR ELEMENT TO GIVEN SYMBOLS OR ELEMENTS. %5m | 0069 |
| | SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. | 0010 |
| | THE CORRECT SYMBOLS FOR THE FOLLOWING SERIES OF ELEMENTS — CALCIUM, SODIUM, CARBON, SULFUR — ARE WHICH OF THE FOLLOWING CHOICESO A. C. S. CA. SU *R. CA. NA, C. S C. C. NA, CA. SU D. NONF OF THE ABOVE | 0706 |
| | THE SYMBOLS - CL. H. FE. I - STAND FOR WHICH OF THE FOLLOWING SERIES OF ELEMENTSO A. CALCIUM, HELIUM, MERCURY IRON B. CALCIUM, HYDROGEN, IRON, MERCURY C. CHLORINF, HELIUM, SILVER, IODINF *D. NONE OF THE ABOVE | 0707 |
| | TRANSLATE THE SYMBOLS - K, ZN, AG, P - INTO ONE OF THE FOLLOWING SERIES OF ELEMENTS. A. KRYPTON, ZIRCON, MERCURY, POTASSIUM B. KRYPTON, ZINC, GOLD, PHOSPHORUS C. KRYPTON, ZINC, SILVER, POTASSIUM *D. NONE OF THE AROVE | 0708 |
| | WHICH OF THE FOLLOWING SERIES OF SYMBOLS REPRESENTS THE ELEMENTS- COPPER, LEAD, MAGNESIUM, ALUMINUMO A. CO. SN. MN. A B. C. LE, MG, AN *C. CU. PB, MG, AL D. NONE OF THE ABOVE | 0709 |
| | WHICH OF THE FOLLOWING IS A CORRECT STATEMENT OF A GENERALIZATION ABOUT THE FORMATION OF SYMBOLS FROM AN ELEMENT NAMEO SYMBOLS ARE FORMED FROM THE A. 1ST LETTER OF THE ELEMENT NAME. B. 1 1ST LETTER AND 3RD LETTER OF THE ELEMENT NAME. C. 1ST LETTER OF FOREIGN NAMES. D. NONE OF THE ABOVE *F. ALL OF THE ABOVE | 0710 |
| | 가득 등 등 하는 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 등 | **** |
| _ | THE STUDENT WILL DISTINGUISH BETWEEN PHYSICAL AND CHEMICAL PROPERTIES OF MATTER BY CATEGORIZING GIVEN PROPERTIES AS SUCH. | 0070 |
| 4 | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | WHICH OF THE FOLLOWING IS A PHYSICAL PROPERTYO A. SUPPORTS COMBUSTION | 0660 |

| | • |
|--|-------|
| A. DUES NOT BURN *C. ODOR D. COMBINES WITH IRON F. NONE OF THE ABOVE | |
| WHICH OF THE ABOVE WHICH OF THE FOLLOWING IS A CHEMICAL PROPERTY OF WATERO *A. REACTS WITH SODIUM B. FREEZES AT 32 DEGREES F. | 0661 |
| C. BOILS BELOW 100 DEGREES C. ON A MOUNTAIN TOP D. HAS A SPECIFIC GRAVITY OF 1.00 F. NONE OF THE ABOVE | · |
| · · · · · · · · · · · · · · · · · · · | ***** |
| THE STUDENT WILL APPLY HIS KNOWLEDGE OF THE THREE STATES OF AGGREGATION BY IDENTIFYING WHETHER A CHANGE OF STATE HAS OCCURRED IN A GIVEN SITUATION. %2# | 0072 |
| SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. | 0010 |
| WHICH OF THE FOLLOWING REPRESENTS A CHANGE OF STATED A. RAIN BECOMES GROUND WATER. B. TIDE WATER RECFEDS. *C. AN ICICLE DRIPS. D. A SNOWFLAKE COMES TO REST. F. ALL OF THE ABOVE | 0662 |
| WHICH OF THE FOLLOWING IS *NOT* A CHANGE OF STATEO A. DEW FORMING ON THE GRASS. *B. A SNOWBALL KEPT IN A FREEZER. C. FROST SUBLIMING FROM THE SIDEWALK. D. WATER BOILING IN A TEAPOT. F. ALL OF THE ABOVE | 0663 |
| · ************************************ | **** |
| THE STUDENT WILL DEMONSTRATE AN UNDERSTANDING OF THE FOUR DIFFERENT TYPES OF CHEMICAL CHANGES BY SELECTING THE CHEMICAL CHANGE THAT OCCURS ON THE BASIS OF THE PRODUCTS THAT ARE FORMED. | 0073 |
| SELECT THE TYPE OF CHEMICAL CHANGE. | 24 |
| HYDROGEN IS RELEASED WHEN SODIUM IS ADDED TO WATER. A. COMBINATION B. DECOMPOSITION **C. REPLACEMENT D. DOUBLE REPLACEMENT | 0687 |
| WHEN A COPPER STRIP IS IMMERSED IN SILVER NITRATE SOLUTION, IT BECOMES COATED WITH SILVER, A. COMBINATION B. DECOMPOSITION **C. REPLACEMENT D. DOUBLE REPLACEMENT | 0688 |
| WHEN SILVER BROMIDE SOLUTION IS POURED INTO A SOLUTION OF NICKEL CHLORIDE A WHITE PRECIPITATE OF SILVER CHLORIDE IS FORMED. A. COMBINATION | 0689 |

- B. DECOMPOSITION
- C. REPLACEMENT
- *D. DOUBLE REPLACEMENT
- WHEN VERY FINE IRON WIRE IS HEATED. IT BURNS AND FORMS IRON -OXIDE. WHEN CALCIUM CARBONATE IS HEATED. IT GIVES OFF CARBON
 DIOXIDE GAS. THESE TWO CHANGES ARE

- A. BOTH THE SAME TYPE OF CHANGE.
- *B. NOT THE SAME TYPE OF CHANGE.
- C. IMPOSSIBLE TO COMPARE ON THE BASIS OF INFORMATION GIVEN.

THE STUDENT WILL SHOW UNDERSTANDING OF THE STRUCTURE AND PHYSICAL PROPERTIES OF METALS, NON-METALS AND INFRT GASES BY SELECTING THE CORRECT PROPERTIES OR STRUCTURE FOR A GIVEN ELEMENT. %40

0074

SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT.

0.008

AN ATOM HAS 3 ELECTRONS ON ITS OUTER ENERGY LEVEL. IT IS THERE-

0715

- *A. METAL.
- B. NON METAL.
- C. INERT GAS.

AN ATOM WITH AN ATOMIC NUMBER OF 16 AND AN ATOMIC WEIGHT OF 32 WOULD ACT AS A MAND

0716

- A. METAL.
- *R. NON METAL.
- C& INERT GAS.
- D. NONE OF THE ABOVE

AN ATOM IS CONSIDERED INERT WHEN IT IS NOT CHEMICALLY ACTIVE UNDER STANDARD CONDITIONS. THIS INACTIVITY IS DUE TO THE FACT THAT IT HAS

0717

- A ... ITS OUTER ENERGY LEVEL RELATIVELY FAR AWAY FROM ITS NUCLEUS.
- R. ITS OUTER ENERGY LEVEL RELATIVELY CLOSE TO ITS NUCLEUS.
- C. MORE THAN 4 ELECTRONS IN ITS OUTER ENERGY LEVEL.
- *D. B ELECTRONS IN ITS OUTER ENERGY LEVEL.

SULFUR IS A NON METAL, BUT HAS THE METAL LIKE PROPERTY OF SHININESS. WHAT OTHER PROPERTY WOULD PREVENT YOU FROM CLASSIFYING IT AS A METALO

0718

- A. YELLOWNESS
- B. LOW MELTING POINT
- *C. NON COMPUCTOR OF ELECTRICITY
- D. A SOLID AT ROOM TEMPERATURE

THE STUDENT WILL DEMONSTRATE AN UNDEFSTANDING OF ACIDS. BASES AND SALTS BY SELECTING WHICH ONE IS INVO. D AS A RESULT OF A GIVEN CHEMICAL REACTION. %70

იი75

SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT.

0008

A COLORLESS EIQUID IS PROBABLY AN ACID IF IT B. TURNS RFD LITMUS BLUE.

0646

ERIC Full Text Provided by ERIC

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C. LEAVES BLUE LITMUS BLUE.
 D. LEAVES RED LITMUS RED.
 E. DOES NONE OF THE ABOVE
A COLORLESS LIQUID IS PROBABLY A BASE IF IT
                                                                      0647
 A. TURNS BLUE LITMUS RED.
 MB. TURNS RED LITMUS BLUE.
 C. LEAVES RED LITMUS RED.
 D. DOES NONE OF THE ABOVE
WHICH PROPERTY OF A COLORLESS LIQUID INDICATES IT IS *NOT* WATERO
                                                                      0648
 A. LEAVES BLUE LITMUS BLUE
 B. LEAVES RED LITMUS RED
 *C. PRODUCES A GAS WHEN ADDED TO BAKING SODA
 D. PRODUCES A GAS WHEN ADDED TO BAKING POWDER
 F. DOES NONE OF THE ABOVE
WHICH OF THE FOLLOWING WILL COMBINE WITH ZINC TO PRODUCE
                                                                      0649
HYDROGENO
 #/ AN ACID
 R. A BASE
 C. A SALT
 D. WATER
 F. NONF OF THESE
MRICH OF THE FOLLOWING IS A PRODUCT OF THE NEUTRALIZING REACTION
BETWEEN AN ACID AND BASEO
  A. ANOTHER ACID
  B. ANOTHER BASE
 MC. A SALT
  D. HYDROGEN
  ". NONE OF THESE
A SUBSTANCE THAT LIBERATES THE POSITIVE HYDROGEN ION IN CHEMICAL
REACTIONS IS
 WA. AN ACID.
  Be A BASE .
  C. A HYDROXIDE.
  D. AN OXIDE.
  F. NOME OF THESE
 A SUBSTANCE THAT ACCEPTS THE POSITIVE HYDROGEN ION IN CHEMICAL
                                                                       0652
 FACTIONS IS
  A. AN ACID.
 SB. A BASE.
  C. A SALT.
  D. MONE OF THESE
 THE STUDENT WILL DEMONSTRATE COMPREHENSION OF GENERAL MOLECULAR
                                                                       0076
 HEFFERENCES BETWEEN ELEMENTS. COMPOUNDS AND MIXTURES BY SELECTING
 MARACTERISTICS OF EACH IN GIVEN SITUATIONS. %12m
DIRECTIONS -- BELOW ARE THREE CONTAINERS. THE CONTENTS OF EACH
CONTAINER IS LISTED PELOW THAT CONTAINER.
```

ERIC

CONTAINER A

PACH OF ECULE IN

CONTAINER B

CONTAINER C

| | THIS CONTAINER IS THIS CONTAINER IS THIS CONTAINER ARE H SO O AND H O 2 4 2 2 2 | |
|---|--|------|
| | ACCORDING TO THE INFORMATION ABOVE, WHICH OF THE FOLLOWING STATEMENTS IS A VALID INFERENCE ABOUT THE MOLECULES IN THE CONTAINERD IF VALID CIRCLE THE *A*, IF INVALID CIRCLE THE *B*. | |
| | A B* CONTAINER C HAS THE GREATEST NUMBER OF MOLECULES. | 1004 |
| | A B* CONTAINER B HAS A COMPOUND IN IT. | 1005 |
| | A B* CONTAINER C HAS THE BIGGEST MOLECULES IN IT. | 1006 |
| | A* B CONTAINER B HAS THE SMALLEST MOLECULES IN IT. | 1007 |
| | A* B THE SUBSTANCE IN CONTAINER A WOULD BE CLASSIFIED AS A COMPOUND. | 1008 |
| | A* B THE SUBSTANCE IN CONTAINER A HAS THE LARGEST MOLECULES. | 1009 |
| | A B# THE SUBSTANCE IN CONTAINER C WOULD BE CLASSIFIED AS A COMPOUND. | 1010 |
| | DIRECTIONS BELOW ARE FOUR CHEMICAL FORMULAE A. H.O. 2 | 39 |
| | В。 Н 2 | |
| (| C. N. 2 | |
| | D _n HCL | |
| | WHICH OF THE FOLLOWING IS A VALID INFERENCE ABOUT WHY B AND C ARE THE FORMULAE FOR ELEMENTSO IF VALID CIRCLE *A*, IF NOT VALID CIRCLE *B*. | |
| | A B# TWO KINDS OF ATOMS ARE REPRESENTED BY EACH SYMBOL. | 1011 |
| | A B* EACH HAS TWO ATOMS IN IT. | 1012 |
| | A* B EACH HAS ONLY ONE TYPE OF ATOM IN IT. | 1013 |
| | A B* A AND D EACH HAVE THREE ATOMS. | 1014 |
| | A* B ONLY ONE TYPE OF SYMBOL IS USED. | 1015 |
| | 并 证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证据的证 | **** |
| | THE STUDENT WILL ANALYZE CHEMICAL FORMULAE BY SELECTING VALID INFERENCES ABOUT THE METHOD OF WRITING CHEMICAL FORMULAE. %11 | 0077 |
| | DIRECTIONS BELOW APF CHEMICAL FORMULAE 2 2 2 | 40 |
| | | |

THIS CONTAINER IS THIS CONTAINER IS THIS CONTAINER ARE

ZN & 2HC1 ZNC1 & H

2A] 0 4 A1 6 30 2 3 2 2 2 CUCO CUCO CUCO CUCO CO

FROM AN ANALYSIS OF THE ABOVE EXAMPLES OF CHEMICAL EQUATIONS.
WHICH OF THE FOLLOWING IS A VALID INFERENCE ABOUT THE WAY THAT
CHEMICAL EQUATIONS ARE WRITTEN. IF AN INFERENCE IS VALID FOR THE
ABOVE INFORMATION CIRCLE #A*, IF INVALID CIRCLE *B*.

| A | B# | MINUS AND PLUS SYMBOLS CAN BE USED. | 1016 |
|-------------|-----------------|--|--------|
| Λ # | R | AN ARROW BETWEEN THE TWO SIDES OF A CHEMICAL EQUATION MEANS THE SAME AS *GIVES* OR *EQUALS** | 1017 |
| A · | B* | THE ARROW BETWEEN THE TWO SIDES OF A CHEMICAL EQUATION CAN BE DRAWN WITH ITS HEAD POINTING EITHER WAY. | 1018 |
| Α | ₽* | CHEMICAL EQUATIONS CAN BE USED TO SHOW EITHER CHEMICAL OR PHYSICAL CHANGES. | 1019 |
| V # | R | A FORMULAE IN AN EQUATION CAN REPRESENT EITHER ELEMENTS OR COMPOUNDS. | 1020 |
| Α | В₩ | THE *NUMBER* OF *FORMULAE* ON EITHER SIDE OF THE ARROW IS THE SAME. | 1021 |
| ΑĦ | B | THE *NUMBER* OF *ATOMS* OF ANY PARTICULAR ELEMENT IS THE SAME ON EITHER SIDE OF THE ARROW. | 1022 |
| A | ₽* | THE *TOTAL NUMBER* OF *MOLECULES* ON ONE SIDE OF THE ARROW EQUALS THE TOTAL NUMBER ON THE OTHER SIDE OF THE ARROW. | 1023 |
| ∧ # | В | A CHEMICAL EQUATION USES CHEMICAL FORMULAE AND NO WORDS. | 1024 |
| Α | ₿₩ | FORMULAE ARE LISTED ALPHABETICALLY ON BOTH SIDES OF THE EQUATION. | 1025 |
| ٨ | β# | ELEMENTS WITH THE SAME FIRST LETTER SHOULD NOT BE USED IN THE SAME EQUATION. | 1026 |
| <u>Je</u> u | | ** ** ** * * * * * * * * * * * * * * * * | WWWXXX |
| ine in | *************** | | |
| | | TUDENT WILL ANALYZE A GIVEN CHEMICAL EQUATION BY ATING FAULTS OF INCORRECTLY WRITTEN CHEMICAL EQUATIONS. %7 | 0078 |

WHICH OF THE FOLLOWING STATEMENTS SHOULD BE *USED TO CORRECT THIS EQUATION*O IF THE STATEMENT *SHOULD BE USED CIRCLE A*• IF IT SHOULD *NOT* BE *USED CIRCLE B*•

DIRECTIONS-- BELOW IS AN *INCORRECTLY* WRITTEN CHEMICAL EQUATION.

2CUO - 2C ---- TWO MOLECULES OF COPPER \$2CUB & CO

| | • | *. |
|--|--|------|
| A* B | THE NUMBER OF ATOMS OF AN ELEMENT SHOULD BE EQUAL ON BOTH SIDES OF THE FOUATION. | 1027 |
| A B* | THE NUMBER OF MOLECULES SHOWN ON EACH SIDE OF THE FQUATION SHOULD BE THE SAME. | 1028 |
| A* H | THE ARROW BETWEEN THE TWO SIDES OF A CHEMICAL EQUATION SHOULD POINT TOWARD THE RIGHT. | 1029 |
| A* B | CHEMICALS IN THE EQUATION SHOULD BE EXPRESSED BY THEIR FORMULA AND NOT BY WORDS. | 1030 |
| A B* | THE FLEMENT CARBON SHOULD BE LISTED FIRST ON BOTH SIDES OF THE EQUATION. | 1031 |
| A B* | BECAUSE THE SYMBOL FOR CARBON IS USED, COPPER SHOULD NOT APPEAR IN THE SAME EQUATION. | 1032 |
| A R* | THE FORMULAE SHOWN MUST REPRESENT ELEMENTS OR COMPOUNDS. | 1033 |
| *** | 放 在水水水 取 类 水水水水 聚 套 水水水水 聚 表 水水水 新 新 水水 新 新 水水 新 新 新 新 新 新 新 新 新 新 | **** |
| THE S | TUDENT WILL DEMONSTRATE HIS COMPREHENSION OF THE RULE THAT CAL EQUATIONS MUST BE BALANCED BY SELECTING THE CORRECT ULAR AMOUNTS FOR THE INCOMPLETE SIDE OF A CHEMICAL EQUATION. | 0079 |
| | TIONS BELOW IS AN INCOMPLETE CHEMICAL EQUATION. E 0 2 2 3 | 1034 |
| ON BO OF NU OF TH A. B. *C. D. E. | BERING THAT *THE NUMBER OF ATOMS OF AN ELEMENT MUST BE EQUAL TH SIDES OF A CHEMICAL EQUATION*, SELECT THE CORRECT PAIR MBERS TO COMPLETE THE LEFT SIDE OF THE EQUATION. THE ORDER E NUMBERS MUST BE CONSIDERED. 1.1 2.3 4.3 2.1 3.3 3.2 | |
| | | 1025 |
| COMPL | DING TO THE ABOVE STATED RULE WHICH NUMBER CORRECTLY ETES THIS EQUATIONO & 30 KCLO | 1035 |
| | 2 3 | • |
| Α. | · · | ٠, |
| # B • C • | 2 1 | |
| D. | | • |
| ٠ | | |

THE STUDENT WILL ANALYZE A LIST OF MIXTURES REPRESENTED BY FORMULAE AND A LIST OF FORMULAE REPRESENTING CHEMICAL REACTIONS BY SELECTING VALID INFFRENCES ABOUT THE REPRESENTATION OF MIXTURES BY FORMULA. %100

WIKECTIONS -- STUDY THE CHART BELOW.

EXAMPLES OF MIXTURES REPRESENTED BY FORMULAE FORMULA WRITTEN AS PART OF A CHEMICAL CHANGE

3MGO . 4510 . H O

NA & CI NACI

≒650 **.7H** 0

CACO & SIO - CASIO & CO 2 3

35 . 5FE .

2CUO & C COMMENT 2CU & CO

THE ABOVE LEFT COLUMN SHOWS THAT THERE #15* A WAY TO REPRESENT MINTURES BY FORMULAE, WHICH OF THE FOLLOWING ARE VALID INFERENCES ALOUT THE WAY THAT A MIXTURE IS REPRESENTED BY FORMULAE COMPARED TO THE USE OF FORMULAE IN A CHEMICAL EQUATION. IF IT IS VALID CIRCLE *A+. IF IT IS INVALID CIRCLE *A*.

| λ | B÷ | THERE ARE | NO | COMPOUND | FORMULAE | IN | MIXTURES | BUT' | THERE | ARE | IN | 1036 |
|---|----|-----------|-----|----------|----------|----|----------|------|-------|-----|----|------|
| | | CHEMICAL | EQU | ATIONS. | , | | | | | | | |

1037

| $A_{\mathcal{P}}$ f | 3 | A CHEMICAL EQUATION | INDICATES | THAT SOMETHING | IS HAPPENING |
|---------------------|---|---------------------|-------------|------------------|----------------|
| | | OR GOING TO HAPPEN | BUT THE FOI | RMULAE IN A MIXT | URE DOES NOT . |

1038

A B# A DOT %.n AND A PLUS SIGN %60 MEAN THE SAME THING.

1040

A B* A CHEMICAL EQUATION AND A MIXTURE BOTH INDICATE THE FORMATION OF NEW MOLECULES.

1041

B* PURE ELEMENTS ARE ONLY INVOLVED IN CHEMICAL EQUATIONS BUT CANNOT BE SHOWN IN A MIXTURE.

1042

BY THE MOLECULES IN A MIXTURE ARE ALL ATTACHED TO EACH OTHER TO FORM ONE BIG MOLECULE AND SO DO THE MOLECULES IN A CHEMICAL EQUATION

1043

DOTS %. ARE USED BETWEEN FORMULAE IN MIXTURES BUT PLUSES. %6m ARE NOT USED.

DOTS MEAN THAT THE FORMULAE IN A MIXTURE WILL NEVER A# 11 CHEMICALLY COMBINE.

1045

THE STUDENT WILL DEMONSTRATE HIS COMPREHENSION OF THE MEANING OF FORMULAE USED TO REPRESENT A MIXTURE BY MATCHING IT WITH ITS CORRECT INTERPRETATION. %2"

0081

BFLOW IS A CHEMICAL FXPRESSION F 3 & C & CAO

WHICH OF THE FOLLOWING IS A COPRECT INTERPRETATION OF THIS EXPRESSIONO

- *A. A MIXTURE CONTAINING TWO COMPOUNDS AND AN ELEMENT.
- B. THIS SHOWS THE LEFT SIDE OF A CHEMICAL EQUATION CONTAINING ELEMENTS AND COMPOUNDS.
- C. A COMPOUND CONTAINING FIVE DIFFERENT ELEMENTS.
- D. FIVE DIFFERENT FLEMENTS ARE SHOWN BUT THEIR MOLECULES ARE UNATTACHED.

| * * | *** | ************************************** | **** |
|-----|------------|---|-------|
| CO | RREC | TUDENT WILL ANALYZE GIVEN CHEMICAL FORMULAE AND THEIR OF INTERPRETATIONS BY SELECTING VALID CONCLUSIONS ABOUT THE NG OF CHEMICAL FORMULAE. %110 | 0082 |
| TH | EIR | TIONS ANALYZE THE THREE FORMULAE BELOW AND COMPARE THEM TO INTERPETATIONSTWO MOLECULES OF H O %WATER EACH MOLECULE CONTAINS TWO 2 | 0043 |
| 2 | 4 | ONE ATOM OF SULFUR AND FOUR ATOMS OF OXYGEN | |
| 51 | 3 3 | HFIVE MOLECULES OF NH OH. EACH MOLECULE CONTAINS ONE ATOM 3 NITROGEN. FOUR ATOMS OF HYDROGEN AND ONE ATOM OF OXYGEN | |
| WR | HTI | OF THE FOLLOWING STATEMENTS IS A VALID INFERENCE ABOUT THE NG OF CHEMICAL FORMULAE. IF THE STATEMENT IS VALID CIRCLE IF IT IS INVALID CIRCLE #B*. | • • |
| Α. | _ B* | THE SYMBOL FOR AN ELFMENT CAN ONLY APPEAR ONCE IN A CHEMICAL FORMULA. | 1048 |
| Α | 8* | ELEMENT SYMBOLS APPEAR IN ALPHABETICAL ORDER IN A FORMULA. | 1049. |
| Α* | F B. | GENERALLY SOME ELEMENTS SYMBOLS APPEAR MORE OFTEN AT THE FRONT OF A FORMULA THAN OTHERS. | 1050 |
| Α | 8 * | THE NUMBERS RECORDED BELOW ELEMENT SYMBOLS STAND FOR THE NUMBER OF MOLECULES. | 1051 |
| Α | B∗ | THE NUMBERS RECORDED BELOW ELEMENT SYMBOLS TELL SOMETHING ABOUT THE SYMBOL *IMMEDIATELY FOLLOWING* THE NUMBER. | 1052 |
| A | * B | THE LARGE NUMBERS AT THE FRONT OF A FORMULA STAND FOR THE NUMBER OF MOLECULES. | 1057 |
| Α | B* | YOU CAN FIND THE TOTAL NUMBER OF ATOMS IN *A MOLECULE* BY JUST ADDING THE NUMBERS IN THE FORMULA. | 1054 |
| A | * B | ONE MOLECULE OR ONE ATOM IS NEVER REPRESENTED BY THE NUMBER ONE. | 1055 |
| Λ | * A | THE NUMBERS WRITTEN BELOW THE SYMBOLS TELL SOMETHING ABOUT THE ELEMENT WHOSE SYMBOL APPEARS IMMEDIATELY BEFORE THE NUMBER. | 1056 |
| A | 8* | THE LARGE NUMBER AT THE BEGINNING OF THE FORMULA STANDS FOR THE NUMBER OF ATOMS IN EACH MOLECULE. | 1057 |

| A* B THE NUMBERS LISTED BELOW THE ELEMENT SYMBOLS STAND FOR THE NUMBER OF ATOMS. | 1058 |
|--|-------------|
| ** ** ** ** ** ** ** ** ** ** ** ** ** |) ****** |
| THE STUDENT WILL ANALYZE A LIST OF ELEMENTS AND THEIR SYMBOLS BY SELECTING CONCRETE INFERENCES ABOUT THE PROCESS OF SYMBOL WRITING. %130 | 0177 |
| DIRECTIONS - BEFORE YOU IS A SHEET CONTAINING ALL OF THE ELEMENTS AND THEIR SYMBOLS. STUDY THEM CAREFULLY AND BASED UPON YOUR OBSERVATION OF THE LIST CHOOSE THE CORRECT OR BEST ANSWER TO EACH OF THE FOLLOWING QUESTIONS. | |
| WHICH OF THE FOLLOWING IS TRUE ABOUT THE *MAJORITY* OF ELEMENT SYMBOLSO THEY CONTAIN A. A SINGLE CAPITAL LETTER. B. TWO CAPITAL LETTERS. C. TWO SMALL LETTERS. *D. A CAPITAL LETTER WITH A SMALL LETTER AFTER IT. E. A SMALL LETTER WITH A CAPITAL LETTER AFTER IT. | 1922 |
| DETERMINE WHICH OF THE FOLLOWING IS A CORRECT INFERENCE ABOUT THE *SECOND LETTER* IN THE *MAJORITY* OF *TWO LETTER SYMBOLS*. THE SECOND LETTER APPEARS *A. IN THE FIRST HALF OF THE ELEMENT.S NAME. B. IN THE LAST HALF OF THE ELEMENT.S NAME. C. IS NOT IN THE ELEMENT.S NAME. D. IS THE FIRST LETTER IN THE ELEMENT.S NAME. | 1925 |
| DIRECTIONS - BELOW IS A LIST OF 8 ELEMENTS AND THEIR SYMBOLS. | |
| SAMARIUM - SM SILICON - SI SILVER - AG SCANDIUM - SC STRONTIUM - SR SELENIUM - SE SODIUM - NA SULFUR - S | |
| WHICH OF THE FOLLOWING IS A VALID INFERENCE ABOUT THE LETTERS USED FOR THESE ELEMENTS SYMBOLS. CIRCLE *A* IF IT IS *VALID*. CIRCLE *H* IF THE INFERENCE IS *INVALID*. | |
| A B* THE SECOND LETTER IN THE TWO LETTER SYMBOLS IS THE SECOND LETTER IN THE FLEMENTS NAME. | 1926 |
| A* 8 SOME SYMBOL LETTERS DO NOT COME FROM THE ELEMENT.S NAME. | 1927 |
| A B* BECAUSE OF THEIR SYMBOLS THE ELEMENTS WERE DISCOVERED IN THE ORDER THAT THEY ARE LISTED. | 1928 |
| A* B IN MOST CASES. THE SECOND LETTER IS USED TO DISTINGUISH ONE ELEMENT SYMBOL FROM ANOTHER. | 1929 |
| DIRECTIONS - BELOW IS A LIST OF THREE ELEMENTS. SAMARIUM - SM SULFUR - S SILICON - SI | |
| OF THE FLEMENTS IN THIS LIST, THE ONE WHOSE SYMBOL WAS MOST | |

CONSIDERED IN ARRIVING AT THIS CONCLUSIONO FOR THOSE THAT WERE CONSIDERED RELEVANT CIRCLE THE *A*. THOSE STATEMENTS THAT DID NOT ASSIST YOU IN THE CONCLUSION CIRCLE THE *B*.

| A* B THE SYMBOL FOR SULFUR IS ONLY ONE LETTER AND THE OTHERS COATAIN TWO LETTERS. A H* IF LISTED ALPHARETICALLY BY THE 4TH LETTER, SULFUR WOULD APPEAR FIRST. A* B THE FIRST LETTER IN SULFUR.S NAME IS AN S AND THE OTHER 1937 ELEMENTS ALSO START WITH AN S. A B* THE SECOND LETTER IN ITS NAME IS A MORE COMMONLY USED JOWEL. A* B ALPHARFICAL ORDER MUST HE CONSIDERED WHEN ASSIGNING 1933 YOWEL. A* B ALPHARFICAL ORDER MUST HE CONSIDERED WHEN ASSIGNING 1934 SYMBOLS TO REMENTS. *********************************** | | | | | |
|--|----|------------|-------------|--|------|
| APPEAR FIRST. A H THE FIRST LETTER IN SULFUR'S NAME IS AN S AND THE OTHER ELEMENTS ALSO START WITH AN S. A B* THE SECOND LETTER IN ITS NAME IS A MORE COMMONLY USED VOWEL. A B ALPHABFTICAL ORDER MUST HE CONSIDERED WHEN ASSIGNING ******************************** | | A* | В | | 1930 |
| BELEMENTS ALSO START WITH AN S. A B* THE SECOND LETTER IN ITS NAME IS A MORE COMMONLY USED VOWEL. A* B ALPHABETICAL ORDER MUST HE CONSIDERED WHEN ASSIGNING SYMBOLS TO ELEMENTS. *********************************** | €. | A | H* | | 1931 |
| A* B ALPHABFTICAL ORDER MUST HE CONSIDERED WHEN ASSIGNING ******************************** | | A * | В | | |
| THE STUDENT WILL DESTINATE OF THE WATER ROSE FROM 25 C TO 40 C IN 5 MINUTES. WHICH OF THE FOLLOWING IS A CONCLUSIONO A. THE WATER STARTED TO RUBBLE AROUND THE SIDES OF THE BEAKER. B. THE FLAME OF THE ALCOHOL LAMP ENDED ABOUT 2 CM BELOW THE HEAKER. **C. THE WATER CHANGED COLORS FROM CLEAR TO BLUE BECAUSE OF HEATING. D. THE THE FOLLOWING IS A CONCLUSIONO A. THE HIGHER THE PENDULUM WAS RAISED, THE FASTER IT WOULD GO A. THE HIGHER THE PENDULUM WAS RAISED, THE FASTER IT WOULD GO A. THE HIGHER THE PENDULUM WAS RAISED, THE FASTER IT WOULD GO A. THE PENDULUM SHUNG DOWN BECAUSE OF GRAVITY. C. THE STRING ATTACHED TO THE BOR ALMAYS WAS TAUGHT. D. THE PENDULUM ROSE THE SAME AMOUNT ON EITHER SIDE OF ITS SWING. *********************************** | | A | ß* | | 1933 |
| THE STUDENT WILL DISTINGUISH BETWEEN CONCLUSIONS AND OBSERVATIONS IN AN EXPERIMENT BY IDENTIFYING CONCLUSIONS FROM A SET OF CONCLUSIONS AND OBSERVATIONS. %2D WHICH OF THE FOLLOWING IS A CONCLUSIONO A. THE WATER STARTED TO BUBBLE AROUND THE SIDES OF THE BEAKER. B. THE FLAME OF THE ALCOHOL LAMP ENDED ABOUT 2 CM BELOW THE REAKER. C. THE WATER CHANGED COLORS FROM CLFAR TO BLUE BECAUSE OF HEATING. D. THE TEMPERATURE OF THE WATER ROSE FROM 25 C TO 40 C IN 5 MINUTES. WHICH OF THE FOLLOWING IS A CONCLUSIONO A. THE HIGHER THE PENDULUM WAS RAISED. THE FASTER IT WOULD GO AS IT PASSED THROUGH THE MID-POINT OF ITS SWING. C. THE STRING ATTACHED TO THE BOR ALWAYS WAS TAUGHT. D. THE PENDULUM ROSE THE SAME AMOUNT ON EITHER SIDE OF ITS SWING. *********************************** | | A₩ | В | · | 1934 |
| THE STUDENT WILL DISTINGUISH BETWEEN CONCLUSIONS AND OBSERVATIONS IN AN EXPERIMENT BY IDENTIFYING CONCLUSIONS FROM A SET OF CONCLUSIONS AND OBSERVATIONS. %2D WHICH OF THE FOLLOWING IS A CONCLUSIONO A. THE WATER STATED TO BUBBLE AROUND THE SIDES OF THE BEAKER. B. THE FLAME OF THE ALCOHOL LAMP ENDED ABOUT 2 CM BELOW THE BEAKER. C. THE WATER CHANGED COLORS FROM CLEAR TO BLUE BECAUSE OF HEATING. D. THE TEMPERATURE OF THE WATER ROSE FROM 25 C TO 40 C IN 5 MINUTES. WHICH OF THE FOLLOWING IS A CONCLUSIONO A. THE HIGHER THE PENDULUM WAS RAISED. THE FASTER IT WOULD GO AS IT PASSED THROUGH THE MID-POINT OF ITS SWING. *********************************** | | **- | *** | | **** |
| A. THE WATER STARTED TO BUBBLE AROUND THE SIDES OF THE BEAKER. B. THE FLAME OF THE ALCOHOL LAMP ENDED ABOUT 2 CM BELOW THE BEAKER. **C. THE WATER CHANGED COLORS FROM CLEAR TO BLUE BECAUSE OF HEATING. D. THE TEMPERATURE OF THE WATER ROSE FROM 25 C TO 40 C IN 5 MINUTES. WHICH OF THE FOLLOWING IS A CONCLUSIONO A. THE HIGHER THE PENDULUM WAS RAISED. THE FASTER IT WOULD GO AS IT PASSED THROUGH THE MID-POINT OF ITS SWING. **R. THE PENDULUM SWING DOWN BECAUSE OF GRAVITY. C. THE STRING ATTACHED TO THE BOR ALWAYS WAS TAUGHT. D. THE PENDULUM ROSE THE SAME AMOUNT ON EITHER SIDE OF ITS SWING. *********************************** | | IN | AN | TUDENT WILL DISTINGUISH BETWEEN CONCLUSIONS AND OBSERVATIONS EXPERIMENT BY IDENTIFYING CONCLUSIONS FROM A SET OF | 0083 |
| D. THE TEMPERATURE OF THE WATER ROSE FROM 25 C TO 40 C IN 5 MINUTES. WHICH OF THE FOLLOWING IS A CONCLUSIONO A. THE HIGHER THE PENDULUM WAS RAISED. THE FASTER IT WOULD GO AS IT PASSED THROUIGH THE MID-POINT OF ITS SWING. RE. THE PENDULUM SWING DOWN BECAUSE OF GRAVITY. C. THE STRING ATTACHED TO THE BOB ALWAYS WAS TAUGHT. D. THE PENDULUM ROSE THE SAME AMOUNT ON EITHER SIDE OF ITS SWING. *********************************** | | , | A • B • | THE WATER STARTED TO BUBBLE AROUND THE SIDES OF THE BEAKER. THE FLAME OF THE ALCOHOL LAMP ENDED ABOUT 2 CM BELOW THE BEAKER. | 1059 |
| MHICH OF THE FOLLOWING IS A CONCLUSIONO A. THE HIGHER THE PENDULUM WAS RAISED. THE FASTER IT WOULD GO AS IT PASSED THROUGH THE MID-POINT OF ITS SWING. *********************************** | | | | HEATING. | |
| A. THE HIGHER THE PENDULUM WAS RAISED, THE FASTER IT WOULD GO AS IT PASSED THROUGH THE MID-POINT OF ITS SWING. *********************************** | (| | | | |
| D. THE PENDULUM ROSE THE SAME AMOUNT ON EITHER SIDE OF ITS SWING. *********************************** | ٠ | .† ** | A = - | THE HIGHER THE PENDULUM WAS RAISED. THE FASTER IT WOULD GO AS IT PASSED THROUGH THE MID-POINT OF ITS SWING. THE PENDULUM SWUNG DOWN BECAUSE OF GRAVITY. | 1060 |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF USING DENSITY TO IDENTIFY AN UNKNOWN SUBSTANCE BY SELECTING A PROCEDURE INVOLVING DENSITY WHICH IDENTIFIES AN UNKNOWN SUBSTANCE. %10 A STUDENT WAS SLEKING THE IDENTITY OF TWO UNKNOWN SUBSTANCES. ONE. WAS A YELLOW COLORED LIQUID. AND THE OTHER WAS A PEBBLE LIKE SOLID. WHICH PROCEDURE WOULD BE BEST TO IDENTIFY THE TWO SUB- STANCESO A. MEASURE THE VOLUME OF BOTH SUBSTANCES AND THEN USE A DENSITY TABLE TO IDENTIFY THEM. B. MEASURE THE VOLUME OF BOTH SUBSTANCES BY SIMULTANEOUSLY POURING BOTH INTO A GRANDUATED CYLINDER AND THEN FIND THE MASS OF BOTH. AFTER CALCULATING THE DENSITIES. A DENSITY TABLE CAN BE USED TO IDENTIFY THE SUBSTANCES. *C. MEASURE THE VOLUME OF THE LIQUID IN A GRADUATED CYLINDER, IF POSSIBLE. MEASURE THE VOLUME OF THE SOLID BY WATER DIS- PLACEMENT. MEASURE THE MASS OF BOTH SUBSTANCES. AFTER | | | D. | THE PENDULUM ROSE THE SAME AMOUNT ON EITHER SIDE OF ITS | |
| IDENTIFY AN UNKNOWN SUBSTANCE BY SELECTING A PROCEDURE INVOLVING DENSITY WHICH IDENTIFIES AN UNKNOWN SUBSTANCE. %10 A STUDENT WAS SLEKING THE IDENTITY OF TWO UNKNOWN SUBSTANCES. 1061 ONE, WAS A YELLOW COLORED LIQUID, AND THE OTHER WAS A PEBBLE LIKE SOLID. WHICH PROCEDURE WOULD BE BEST TO IDENTIFY THE TWO SUB- STANCESO A. MEASURE THE VOLUME OF BOTH SUBSTANCES AND THEN USE A DENSITY TABLE TO IDENTIFY THEM. B. MEASURE THE VOLUME OF BOTH SUBSTANCES BY SIMULTANEOUSLY POURING BOTH INTO A GRANDUATED CYLINDER AND THEN FIND THE MASS OF BOTH. AFTER CALCULATING THE DENSITIES, A DENSITY TABLE CAN BE USED TO IDENTIFY THE SUBSTANCES. *C. MEASURE THE VOLUME OF THE LIQUID IN A GRADUATED CYLINDER, IF POSSIBLE. MEASURE THE VOLUME OF THE SOLID BY WATER DIS- PLACEMENT. MEASURE THE MASS OF BOTH SUBSTANCES. AFTER | | * # | *** | *************************************** | **** |
| ONE, WAS A YELLOW COLORED LIQUID, AND THE OTHER WAS A PEBBLE LIKE SOLID. WHICH PROCEDURE WOULD BE BEST TO IDENTIFY THE TWO SUB-STANCESO A. MEASURE THE VOLUME OF BOTH SUBSTANCES AND THEN USE A DENSITY TABLE TO IDENTIFY THEM. B. MEASURE THE VOLUME OF BOTH SUBSTANCES BY SIMULTANEOUSLY POURING BOTH INTO A GRANDUATED CYLINDER AND THEN FIND THE MASS OF BOTH. AFTER CALCULATING THE DENSITIES, A DENSITY TABLE CAN BE USED TO IDENTIFY THE SUBSTANCES. **C. MEASURE THE VOLUME OF THE LIQUID IN A GRADUATED CYLINDER, IF POSSIBLE. MEASURE THE VOLUME OF THE SOLID BY WATER DISPLACEMENT. MEASURE THE MASS OF BOTH SUBSTANCES. AFTER | | ID | ENT | IFY AN UNKNOWN SUBSTANCE BY SELECTING A PROCEDURE INVOLVING | 0084 |
| A. MEASURE THE VOLUME OF BOTH SUBSTANCES AND THEN USE A DENSITY TABLE TO IDENTIFY THEM. B. MEASURE THE VOLUME OF BOTH SUBSTANCES BY SIMULTANEOUSLY POURING BOTH INTO A GRANDUATED CYLINDER AND THEN FIND THE MASS OF BOTH. AFTER CALCULATING THE DENSITIES, A DENSITY TABLE CAN BE USED TO IDENTIFY THE SUBSTANCES. **C. MEASURE THE VOLUME OF THE LIQUID IN A GRADUATED CYLINDER, IF POSSIBLE. MEASURE THE VOLUME OF THE SOLID BY WATER DIS- PLACEMENT. MEASURE THE MASS OF BOTH SUBSTANCES. AFTER | | ON SC | IE. DLID | WAS A YELLOW COLORED LIQUID. AND THE OTHER WAS A PEBBLE LIKE WHICH PROCEDURE WOULD BE BEST TO IDENTIFY THE TWO SUB- | 1061 |
| POURING BOTH INTO A GRANDUATED CYLINDER AND THEN FIND THE MASS OF BOTH. AFTER CALCULATING THE DENSITIES, A DENSITY TABLE CAN BE USED TO IDENTIFY THE SUBSTANCES. *C. MEASURE THE VOLUME OF THE LIQUID IN A GRADUATED CYLINDER, IF POSSIBLE. MEASURE THE VOLUME OF THE SOLID BY WATER DISPLACEMENT. MEASURE THE MASS OF BOTH SUBSTANCES. AFTER | | , | A . | MEASURE THE VOLUME OF BOTH SUBSTANCES AND THEN USE A DENSITY TABLE TO IDENTIFY THEM. | |
| *C. MEASURE THE VOLUME OF THE LIQUID IN A GRADUATED CYLINDER. IF POSSIBLE. MEASURE THE VOLUME OF THE SOLID BY WATER DIS- PLACEMENT. MEASURE THE MASS OF BOTH SUBSTANCES. AFTER | (| | • | POURING BOTH INTO A GRANDUATED CYLINDER AND THEN FIND THE MASS OF BOTH. AFTER CALCULATING THE DENSITIES, A DENSITY | • |
| | | + | | MEASURE THE VOLUME OF THE LIQUID IN A GRADUATED CYLINDER, IF POSSIBLE, MEASURE THE VOLUME OF THE SOLID BY WATER DIS- | |
| | | | | Account of the Control of the Contro | |

CALCULATING DENSITIES. A TABLE CAN BE USED TO IDENTIFY THE SUBSTANCES.

D. POUR THE LIQUID INTO A GRADUATED CYLINDER AND NOTE ITS VOLUME. IF POSSIBLE, POUR THE SOLID INTO THE LIQUID IN THE CYLINDER AND NOTE THE NEW VOLUME -- FROM THESE MEASUREMENTS THE VOLUME OF THE SOLID CAN BE FOUND. MASS MEASUREMENTS ARE

NEEDED OF BOTH SUBSTANCES BEFORE THE DENSITIES IN CM /G CAN BE CALCULATED. FINALLY. A DENSITY TABLE CAN BE USED TO IDENTIFY THE SUBSTANCES.

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| * | · * * * * * * * * * * * * * * * * * * * |
| THE STUDENT WILL DEMONSTRATE AN UNDERSTANDING OF THE VARIOUS INDICATOR TESTS FOR ACIDS AND BASES BY SELECTING WHETHER THE RESULTS INDICATE AN ACID, BASE OR NEUTRAL. %60 | 0085 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| GIVEN A SUBSTANCE THAT TURNS RED LITMUS PAPER BLUF. YOU WOULD CONCLUDE THAT THE SUBSTANCE WAS A. AN ACID. **B. A BASE. C. NEUTRAL. D. CANNOT BE DETERMINED | 0751 |
| A BASE WILL A. TURN RED LITMUS PAPER BLUE. B. TURNS BLUE LITMUS PAPER RED. C. NOT CHANGE THE COLOR OF LITMUS PAPER. D. HAVE A READING OVER 5 ON PH PAPER. *E. BOTH A AND D F. BOTH C AND D | 752 |
| AN ACID WILL A. TURN RED LITMUS PAPER BLUE. *B. TURN BLUE LITMUS PAPER RED. C. NOT CHANGE THE COLOR OF LITMUS PAPER. D. NONE OF THE ABOVE | 753 |
| ALL OF THE FOLLOWING ARE TESTS FOR ACIDS *EXCEPT* A. BLUE LITMUS PAPER TURNS RED. *B. A PH READING OF 2. C. A PH READING OF 8. D. RED LITMUS PAPER TURNS BLUE. F. BOTH A AND R | 0754 |
| F. BOTH C AND D WHICH OF THE FOLLOWING ARE TESTS FOR BASESO A. BLUE LITMUS PAPER TURNS RED. H. RED LITMUS PAPER TURNS BLUE. C. PH READING OF IO. *D. ONLY B AND C | 0755 |
| F. NONE OF THE ABOVE | (|
| IF A SUBSTANCE IS NEUTRAL WHICH OF THE FOLLOWING WOULD BE TRUE | 0756 |

102

A. RED LITMUS PAPER WILL BURN BLUE. B. BLUE LITMUS PAPER WILL TURN RED.

D. PH-READING OF 1.

*C. NO CHANGE IN RED OR BLUE LITMUS PAPER.

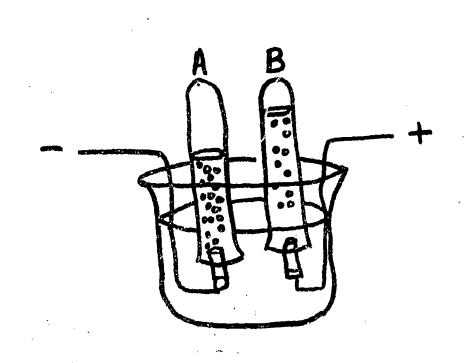
| | *** | ***** |
|---|--|-------|
| | THE STUDENT WILL SHOW KNOWLEDGE OF CHEMICAL BONDING OF ATOMS BY IDENTIFYING PROPERTIES AND CHANGES THAT OCCUR AS A RESULT OF THE BONDING. %BI | 0086 |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 8000 |
| | WHEN TWO OR MORE ATOMS ARE LINKED TOGETHER THEY FORM A. A COMPOUND. *B. A MOLECULE. C. A MIXTURE. D. NONE OF THE ABOVE | 0743 |
| | A SUBSTANCE THAT CONSISTS OF TWO OR MORE ELEMENTS CHEMICALLY COMBINED IS CALLED A. A MIXTURE B. A MOLECULE. #C. A COMPOUND. D. NONE OF THE ABOVE | 0744 |
| : | WHAT IS THE SMALLEST UNIT INTO WHICH A COMPOUND CAN BE DIVIDED AND STILL RETAIN ALL THE PROPERTIES OF THE COMPOUNDO A. AN ATOM B. AN ELEMENT **C. A MOLECULE D. NONE OF THE ABOVE | 0745 |
| | WHICH OF THE FOLLOWING IS *NOT* A TRUE STATEMENT CONCERNING A COMPOUNDO A. A COMPOUND.S SMALLEST PART THAT RETAINS ALL PROPERTIES IS A MOLECULE. B. IN A COMPOUND THE ATOMS UNDERGO CHEMICAL REACTION WHEN JOINED. C. A COMPOUND CONSISTS OF TWO OR MORE ELEMENTS. *D. NONE OF THE ABOVE | 0746 |
| | WHICH OF THE FOLLOWING IS NOT A COMPOUNDO A. SODIUM CHLORIDE *B. OXYGEN C. WATER D. HYDROCHLORIC ACID E. ALL OF THE ABOVE | 0747 |
| | WHICH OF THE FOLLOWING IS A TRUE STATEMENT CONCERNING CHEMICAL BONDINGO A. CHEMICAL BONDING IS A FORCE THAT HOLDS ATOMS TOGETHER. B. THERE ARE TWO TYPES OF CHEMICAL BONDING. C. IN BONDING, ATOMS CAN GAIN, LOSE OR SHARE ELECTRONS. *D. ALL OF THE ABOVE E. NONE OF THE ABOVE | 0748 |
| L | IN IONIC BONDING A. ATOMS GAIN ELECTRONS. B. ATOMS LOSE ELECTRONS. C. ATOMS SHARE ELECTRONS. D. ALL OF THE ABOVF *E. ONLY A AND B | 749 |

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F. NONE OF THE ABOVE

| A. ATOMS GAIN FLECTRONS. B. ATOMS LOSE ELECTRONS. **C. ATOMS SHARE ELECTRONS. D. ALL OF THE ABOVE E. NONE OF THE ABOVE | _ (30 |
|--|-------|
| ¥ * * * * * * * * * * * * * * * * * * * | **** |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF SOLUTIONS BY SELECTING CHARACTERISTICS AND EXAMPLES OF SATURATED. UNSATURATED AND SUPERSATURATED SOLUTIONS. %50 | 0087 |
| SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. | 0010 |
| WHICH OF THE FOLLOWING IS *NOT* A SOLUTIONO A. AIR **B. RUBBING ALCOHOL C. SODA POP D. SEA WATER | 0583 |
| IF A BEAKER CONTAINS A CLEAR, COLORLESS LIQUID, THEN IT CONTAINS A. WATER. B. A DILUTE SOLUTION. C. A TRUE SOLUTION. D. A SUPERSATURATED SOLUTION. *E. NOT ENOUGH INFORMATION GIVEN | O584 |
| IF A BEAKER CONTAINS WHITE CRYSTALS AND A CLEAR, COLORLESS LIQUID IT *CANNOT* BE A: A. TRUE SOLUTION. B. SATURATED SOLUTION. C. WATER SOLUTION. *D. SUPERSATURATED SOLUTION. E. CONCENTRATED SOLUTION. F. DILUTE SOLUTION. | 0585 |
| A SATURATED SOLUTION MAY BE A DILUTE SOLUTION WHEN A. LITTLE SOLUTE IS USED. B. LITTLE SOLVENT IS USED. #C. THE SOLUTE IS VERY SLIGHTLY SOLUBLE IN THE SOLVENT. D. THE SOLVENT EVAPORATES. E. NONE OF THE ABOVE | 0587 |
| A SATURATED SOLUTION MAY BE A CONCENTRATED SOLUTION WHEN A. MUCH SOLUTE IS USED. B. MUCH SOLVENT IS USED. **C. THE SOLUTE IS VERY SOLUBLE IN THE SOLVENT. D. THE SOLVENT EVAPORATES. F. ALL OF THE ABOVE | O588 |

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| NAME | CHARGE | VALENCE | SOLUBLE IN WATER | SPLINT TEST | |
|---------------------|--|--|--|--|---------------|
| RFC TRI | & & | 3 | INSOLUBLE HIGHLY | SUPPORTS COMBUSTION COMBINES RAPIDLY WITH OXYGEN CAUSING A BARKING | · |
| CER | | 2 | SLIGHTLY | SOUND DOES NOT COMBINE WITH O | |
| STA | - | 2. | INSOLUBLE | SUPPORTS COMBUSTION | |
| TEST | IT. THE WHICT O | SPLING IN | | ACING A GLOWING SPLINT NTO FLAME. FROM THIS POSSIBLE CHOICEO | 0 7 27 |
| IN TI | YOUR OBSEST TUBE POSITIVE NEGATIVE NEUTRAL | во | OF DIAGRAM 1. WHA | T IS THE CHARGE OF THE GAS | 0728 |
| | QUESTION B TO BEC | | WHAT DO YOU CONC | LUDE THE GAS IN TEST | 0729 |
| Α. | REC TRI | | | | رموصر |
| C. | CER STA | | | | /- |
| IN I WOUL! A. | T. THIS F D CONCLUS REC TRI CER | RESULTED | | PLLING A FLAMING SPLINT FROM THIS RESULT YOU O BE | 0730 |
| IN T *A• | YOU OBS EST TUBE POSITIV NEGATIV NEUTRAL | AO F F | OF DIAGRAM 1. WHAT | IS THE CHARGE OF THE GAS | 0731 |
| А • В • С • | NEGATIV ELECTRO POSITIV FLFCTRO NEGATIV ELECTRO | E CHARGE • DE • E CHARGE • DE • E CHARGE • DE • E CHARGE • | EST TUBE A BECAUSE THEREFORE COLLECT THEREFORE COLLECT THEREFORE COLLECT | IS AT THE NEGATIVE | 0732 |
| • | | F CHARGE, | FST TUBE B BECAUSE THEREFORE COLLECT | E IT HAS A TS AT THE NEGATIVE | 0733 |
| Ω. | | | THEREFORE COLLECT | TS AT THE POSTTIVE | 400 |

B. POSITIVE CHARGE, THEREFORE COLLECTS AT THE POSITIVE

*C. NEGATIVE CHARGE, THEREFORE COLLECTS AT THE POSITIVE ELECTRODE. D. POSITIVE CHARGE, THEREFORE COLLECTS AT THE NEGATIVE FLECTRODE. 0734 FROM YOUR OBSERVATION OF DIAGRAM 1, HOW WOULD YOU EXPLAIN THE DIFFERENCE IN THE AMOUNTS OF GAS COLLECTED IN EACH TUBEO A. THE GAS IN TEST TUBE A COLLECTS MORE REPIDLY THAN B. *B. GAS A IS IN A 2 TO 1 RATIO WITH GAS B. C. GAS B IS MORE SOLUBLE THAN GAS A. D. NOT ENOUGH INFORMATION GIVEN TO ANSWER QUESTION FROM YOUR UNDERSTANDING OF THE 4 TYPES OF CHEMICAL REACTIONS. 0735 WHAT TYPE IS ILLUSTRATED IN DIAGRAM 10 A. COMBINATION *B. DECOMPOSITION C. REPLACEMENT D. DOUBLE REPLACEMENT THE STUDENT WILL DEMONSTRATE AN UNDERSTANDING OF THE WRITING OF 0089 CORRECTLY BALANCED EQUATIONS BY SELECTING AN EQUATION THAT EXPRESSES A GIVEN CHEMICAL REACTION. %311 AFTER THE FOLLOWING CHEMICAL CHANGE DESCRIPTION: SELECT THE 0023 CORRECT BALANCED EQUATION. MAGNESIUM WILL COMBINE WITH THE OXYGEN IN THE AIR WHEN HEATED. 0684 A. MG & O GOES TO MGO B. 2GM & O GOES TO 2MGO C. MG & O GOES TO 2MGO *D. 2MG & O GOES TO 2MGO WHEN SODIUM IS PLACED IN WATER, HYDROGEN GAS IS RELEASED AND 0685 SODIUM OXIDE IS FORMED. A. NA & HO GOES TO NAH O B. HO & NA GOES TO NA O & H %ARROW POINTING UPD 2NA & 2H O GOES TO 2H %ARROW POINTING UPH & NA O 2 2NA & H O GOES TO H %ARROW POINTING UPH & NA O 0686 ZINC . IN A SOLUTION OF NICKEL CHLORIDE, WILL REPLACE THE NICKEL. A. ZN & NICL GOES TO NIZNCL B. NICL & ZN GOES TO ZNCL & 2 NI

ELECTRODE.

*C. NICL & ZN GOES TO NI & ZNCL

4. S

D. 27N & 2NICL GOFS TO 2NI & ZNCL

THE STUDENT WILL APPLY HIS KNOWLEDGE OF AN ATOM, S ABILITY TO COMBINE CHEMICALLY BY IDENTIFYING CORRECT CHEMICAL FORMULAE FOR GIVEN COMPOUNDS - %3" ALUMINUM AND CHLORINE COMBINE ON A 1 TO 3 RATIO. THE FORMULA 0719 FOR ALUMINUM CHLORIDE IS A. AL CL 3 *B . ALCL C. 3AL CL D. AL 3CL THE VALENCE OF CHROMIUM IS PLUS 3 AND THE VALENCE OF ASTATINE IS -1. THEY WILL COMBINE TO PRODUCE WHICH OF THESE FORMULAS. *A . CRAT 1948 - 19 R. CR AT C. CR3AT D. 3CRAT 0721 WHAT DIFFERENCES BETWEEN OXYGEN ATOMS AND CHLORINE ATOMS ACCOUNT FOR THE DIFFERENCES IN THE NUMBER OF HYDROGEN ATOMS IN THESE TWO FORMULAS, H O AND HOTO A. OXYGEN HAS I LESS ENERGY LEVEL THAN CHLORINE. B. OXYGEN HAS 2 MORE FLECTRONS IN ITS OUTER ORBIT. *C• OXYGEN NEEDS 1 MORE ELECTRON THAN CHLORINE DOES TO COMPLETE ITS OUTER SHELL. D. OXYGEN HAS 1/2 AS MANY ELECTRONS AS DOES CHLORINE. THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF HYDROCARBONS BY 0091 IDENTIFYING THE COMPOSITION AND PROPERTIES OF HYDROCARBONS. %3 SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. 0010 HYPROCARBON COMPOUNDS EXIST IN GREAT VARIETY BECAUSE CARBON ATOMS 0622 A. ARE FOUND IN ALL HYDROCARBONS. R. FACH HAVE FOUR BONDS. C. FORM COVALENT BONDS. *D. FORM MOLECULES WHICH LINK CARBON ATOMS IN CHAINS. BRANCHES. OR RINGS. HYDROCARBON MOLECULES ARE GENERALLY A. COVALENT. B. HELD TOGETHER BY SHARED ELECTRONS.

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C. THREE DIMENSIONAL.
D. FOUND IN LIVING THINGS.

*F. ALL OF THE ABOVE

C. IT CONTAINS MORE HYDROGEN THAN CARBON. D. IT IS COMBUSTIBLE. E. ALL OF THE ABOVE THE STUDENT WILL DEMONSTRATE COMPREHENSION OF THE TERMS ADHESION AND COHESION BY IDENTIFYING EXAMPLES OF INTERMOLECULAR FORCES HOLDING MATTER TOGETHER. \$20 SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. 0010 WHICH EXAMPLE LISTED DEPENDS ON THE FORCE OF COHESIONO 0561 A. A POSTAGE STAMP ON A LETTER. *B. A RAZOR BLADE FLOATING ON WATER. C. GRIME ON THE WINDOW PANE. D. GUM ON THE SOLE OF YOUR SHOE. . F. NONE OF THE ABOVE 0562 WHICE EXAMPLE LISTED DEPENDS ON THE FORCE OF ADHESIONO A. BLOWING SOAP BUPBLES. B. ROLLING SEVERAL BALLS OF MERCURY INTO ONE. *C. WRITING LINES ON PAPER WITH A PENCIL. D. HEAPING WATER UP IN A GLASS. E. NONE OF THE ABOVE ENERGY THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF TERMS COMMONLY USED IN 0093 THE STUDY OF ENERGY BY MATCHING THE TERM WITH ITS DEFINITION. %6" 8000 SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 0573 WHICH IS AN EXAMPLE OF WORK BEING DONEO *A. STRIKING A BALL WITH A BAT. B. THINKING OF A TFLEPHONE NUMBER. C. PULLING UP ON A LOCKED GARAGE DOOR. D. NONE OF THE ABOVE E. ALL OF THE ABOVE 574 WHICH IS AN EXAMPLE OF POWERO A. LIFTING A 100 POUND WEIGHT B. LIFTING A 100 POUND WEIGHT WITH ONE FOOT C. LIFTING A 100 POUND WEIGHT WITH ONE FOOT AND ONE HAND *D. LIFTING A 100 POUND WEIGHT WITH ONE FOOT IN FIVE SECONDS E. ALL OF THE ABOVE WHICH IS %NOT* AN EXAMPLE OF FORCED A. A MAGNET PULLING AN IRON NAIL TOWARD IT. R. A PENCIL ROLLING ACROSS THE DESK IS STOPPED BY YOUR HAND. *C. AN ASTRONAUT FLOATING IN A WEIGHTLESS STATE. D. A CHILD PULLING A WAGON. 109

103

A MOLECULE OF METHANE, CH , IS A HYDROCARBON BECAUSE *A. IT IS COMPOSED OF CARBON AND HYDROGEN ATOMS.

1 TO 4.

B. IT CONTAINS CARBON ATOMS AND HYDROGEN ATOMS IN THE RATIO

E. ALL OF THE ABOVE

WHICH OF THE FOLLOWING ILLUSTRATES THE PROPERTY OF INERTIAO 0576 A. THE STRUCK PINGPONG BALL FLIES THROUGH THE OPEN WINDOW. B. THE BOULDER REMAINS POISED ON THE EDGE OF THE CLIFF. C. THE BOOK SLIDES OFF THE SEAT OF THE CAR WHICH IS SUDDENLY STOPPED. *P. ALL OF THE ABOVE WHICH TERM IS NEEDED TO DESCRIBE THE MEANING OF *ENERGY*O 0578 #A. WORK B. POWER C. FORCE n. INFRTIA 0094 THE STUDENT WILL SHOW UNDERSTANDING OF ENERGY TRANSFORMATION BY IDENTIFYING THE TRANSFORMATION THAT HAS OCCURRED OR THE FACTORS INVOLVED IN A GIVEN TRANSFORMATION. SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 0008 0653 THE ENERGY STORED IN THE MATTER OF THE SUN REACHES THE EARTH BECAUSE IT IS CONVERTED TO A. KINETIC ENERGY. *R. RADIANT FNERGY. C. LIGHT FNFRGY. D. HEAT FNERGY. F. NONE OF THE ABOVE 0654 WHICH OF THE FOLLOWING DOES *NOT* USE ENERGY DERIVED FROM THE SUN TO PRODUCE HEAT ENERGYO A. A SMOLDERING LOG B. A CHIRPING BIRD C. A BURNING ALCOHOL LAMP *D. A RUSTING NAIL E. NONE OF THE ABOVE THE PROCESS OF PHOTOSYNTHESIS INCORPORATES CERTAIN ENERGY CHANGES 0655 WHICH ENTAILS A. POTENTIAL ENERGY CHANGED TO KINETIC ENERGY. B. NUCLEAR ENERGY CHANGED TO RADIANT ENERGY. C. RADIANT ENERGY CHANGED TO CHEMICAL ENERGY. D. KINETIC ENERGY CHANGED TO POTENTIAL ENERGY. *F. ALL OF THE ABOVE 0656 THE BLAST-OFF OF A ROCKET FNTAILS THE FOLLOWING CONVERSION OF FNERGY. A. POTENTIAL ENERGY CONVERTED TO KINETIC ENERGY. B. CHEMICAL ENERGY CONVERTED TO MECHANICAL ENERGY. C. CHEMICAL ENERGY CONVERTED TO HEAT ENERGY. D. HEAT ENERGY CONVERTED TO LIGHT ENERGY. *F. ALL OF THE ABOVE

STUDENT WILL DISTINGUISH BETWEEN THE DIFFERENT FORMS OF BY LISTING DEFINITIONS AND EXAMPLES OF THE DIFFERENT

FORMS. %45

| | FORMS. %4P | |
|----|---|---------|
| | THE ABILITY TO DO WORK IS KNOWN AS *A. POTENTIAL ENERGY B. KINETIC ENERGY | 1716 |
| | THAT PART OF THE ENERGY OF A BODY WHICH THE BODY POSSESSES AS A RESULT OF ITS MOTION IS KNOWN AS A. POTENTIAL ENERGY **B. KINETIC ENERGY | 1717 |
| | AN EXAMPLE OF A BODY CONTAINING POTENTIAL ENERGY IS A A. HIPPOPOTAMUS RUNNING IN CIRCLES B. HIGH JUMPER JUST BEFORE HE LEAVES THE GROUND *C. LARGE BOULDER ON TOP OF A CASTLE WALL D. CAR MOVING AT 60 M.P.H. | 1718 |
| | AN FXAMPLE OF A BODY CONTAINING KINETIC ENFRGY IS A. A BALL THROWN UPWARD. AT THE TOP OF ITS PATH B. AN UNEXPLODED STICK OF DYNAMITE *C. A TENNY-BOPPER DOING THE FUNKY CHICKEN | 1719 |
| | *************************************** | ***** ; |
| | GIVEN A PARAGRAPH ON THE DISCOVERY OF RADIUM AND ITS RELATION TO ATOMIC ENERGY. THE CHILD WILL EVALUATE THE STATEMENT BY SELECTING CONCLUSIONS FROM IT. %10 | 0158 |
| •. | IN 1898 MADAME CURIF DISCOVERED RADIUM. IT WAS DISCOVERED THAT ATOMS OF RADIATION THREW OFF PARTICLES AND RADIATIONS THAT WENT THROUGH FLESH AND EVEN SOME METAL. THIS RADIATION LED SCIENTISTS TO BELIEVE THAT THEY COULD USE THE POWER GIVEN OFF TO DO MANY THINGS THAT HAD PREVIOUSLY BEEN UNATTAINABLE. | 1839 |
| | ONE CONCLUSION FROM THIS PARAGRAPH IS A. ATOMIC ENERGY IS OPERATING AT MAXIMUM CAPACITY. B. ATOMIC ENERGY IS MORE POWERFUL THAN ANY OTHER FORM OF ENERGY. *C. RADIATION COULD BE DANGEROUS TO THE BODY. D. NONE OF THE ABOVE | |
| | | , |
| | ************************************** | **** |
| | THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE SIMPLE MACHINES BY IDENTIFYING THE NAMES AND FXAMPLES OF THE SIX SIMPLE MACHINES. \$60 | 0096 |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | WHICH OF THE FOLLOWING ITEMS WOULD BE CLASSIFIED AS A WEDGEO A. STAIRCASE B. A CROWBAR *C. A POCKET KNIFE D. A DOORKNOB E. NONE OF THE ABOVE | 0737 |
| | WHICH OF THE FOLLOWING ITEMS WOULD BE CLASSIFIED AS A LEVERO A. SHOVEL | 0738 |

111

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A. SHOVEL
B. WHEELBARROW

C. CRUWHAR *D. ALL OF THE ABOVE F. NONE OF THE ABOVE A STAIRWAY COULD BE CLASSIFIED AS WHICH OF THE FOLLOWING SIMPLE 0739 MACHINESO A. WEDGE R. LEVER *C. INCLINED PLANE D. WHEEL AND AXLE AN AUTOMOBILE JACK, A VISE, AND AIRPLANE PROPELLERS ARE ALL WHAT 0740 KIND OF SIMPLE MACHINEO A. WEDGE B. LEVER C. INCLINED PLANE D. WHFEL AND AXLE *F. SCREW F. PULLEY A DOORKNOB, SCREWDRIVER AND A PENCIL SHARPNER ARE ALL EXAMPLES 0741 OF WHAT KIND OF SIMPLE MACHINEO A. WEDGE B. LEVER C. INCLN C. INCLINED PLANE *D. WHEEL AND AXLE E. SCREW F. PULLEY WHAT SIMPLE MACHINE COULD BE USED TO RAISE A FLAG OR LIFT HEAVY 0742 LOADSD A. SCREW *R. PULLEY C. INCLINED PLANE D. WEDGE F. LEVER THE STUDENT WILL APPLY HIS KNOWLEDGE OF THE SIMPLE MACHINES BY 0097 IDENTIFYING WHICH MACHINE WOULD BEST ACCOMPLISH A GIVEN PROBLEMATIC SITUATION. %110 SFLECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. 0010 BILL .S PEN CARTRIDGE IS CAUGHT IN THE BARREL OF THE PEN. IN 0612 USING A COMPASS POINT TO EXTRACT IT. HE IS EMPLOYING A. A SIMPLE MACHINE. B. A WEDGF. C. A LEVER. *D. ALL OF THE ABOVE F. NONF OF THE ABOVE TOM USES A WHEELBARREL TO MOVE SAND FOR A SANDBOX. HE WHEELS IT 0613 UP A RAMP TO FILL THE BOX. HE IS USING A *A. SECOND CLASS LEVER AND INCLINED PLANE.

112

.B. FIRST CLASS LEVER AND SECOND CLASS LEVER.

C. THRID CLASS LEVER.
D. NONE OF THE ABOVE

JANE TURNED THE DOORKNOB AND DISCOVERED THE SPIRAL STAIRCASE 0614 WHICH SHE BEGAN TO DESCEND. SHE WAS USING A A. FIRST CLASS LEVER AND WEDGE. *B. WHEEL AND AXLE, AND AN INCLINED PLANE. C. COMPLEX MACHINE. D. NONE OF THE ABOVE DON USED THE BLOCK AND TACKLE ON HIS TOW TRUCK TO PULL THE TRUNK 0615 UP THE PAMP TO THE TRUCK. HE USED A A. SINGLE PULLEY. B. FRICTIONLESS WHEEL. C. SIMPLE MACHINE. *D. COMPLEX MACHINE. WHEN BILL SITS 5 FEFT FROM THE FULCRUM OF THE TEETER-TOTTER, HE 0605 DOES *NOT* BALANCE JIM WHO IS ON THE OTHER END AND 8 FEET FROM THE FULCRUM. IF BILL WANTS TO JUST BALANCE JIM, HE SHOULD A. MOVE CLOSER TO THE FULCRUM. B. EMPTY HIS POCKETS. C. HOLD HIS LITTLE BROTHER IN FRONT OF HIM. *D. NONE OF THE ABOVE IS CONCLUSIVE. WHEN SALLY SITS AT THE END OF THE TEETER-TOTTER, HER FEET JUST 0606 TOUCH THE GROUND. HER FRIEND, JILL, CLIMBS TO THE OPPOSITE END BUT *CANNOT* LIFT SALLY. THIS IS BECAUSE A. SALLY WEIGHS MORE THAN JILL. B. THE FULCRUM IS NOT IN THE MIDDLE. C. THE FULCRUM IS CLOSER TO SALLY. D. THE FULCRUM IS CLOSER TO JILL. *F. NONE OF THE ABOVE IS CONCLUSIVE. A SIMPLE PULLEY IS USED TO RAISE A FLAG. THE FLAG WEIGHS 3 1/2 0607 POUNDS AND WILL BE RAISED 100 FEET. YOU MUST A. EXERT AN EFFORT OF 3 1/2 POUNDS. B. EXERT AN EFFORT THROUGH 100 FEET. C. USE A SINGLE FIXED PULLEY. D. APPLY THE LAW OF THE LEVER. *F. DO ALL OF THE ABOVE. JOHN USES A TWO-STRAND PULLEY TO LIFT A 600 GRAM WEIGHT 100 0608 CENTIMETERS. HE CALCULATES HE WILL NEED TO USE AN EFFORT OF A. 600 GRAMS. *B. 300 GRAMS. C. 100 GRAMS. D. 6 GRAMS. F. NONE OF THESE JOHN CHANGES TO A THREE-STRAND PULLEY. TO LIFT 600 GRAMS THROUGH 0609 100 CENTIMETERS, HE FIGURES HE WILL USE AN EFFORT OF A. 600 GRAMS. B. 300 GRAMS. *C. 200 GRAMS. D. 6 GRAMS. E. NONE OF THESE WHEN JOHN ACTUALLY USES A TWO STRAND PULLEY TO LIFT 600 GRAMS. HE 0610

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FINDS HE WILL NEED A GREATER EFFORT THAN HE CALCULATED BECAUSE

| \cdot | |
|--|---------|
| A. THE LAW OF THE LEVER DOES NOT APPLY. B. THE LAW OF THE LEVER IS NOT EXACT. C. HE NEEDS TRAINING IN USING PULLEYS. *D. HF IS ACTUALLY OVERCOMING MORE THAN 600 GRAMS OF RESISTANCE. F. NONE OF THE ABOVE | () |
| IF JOHN DOUBLES THE DISTANCE THROUGH WHICH HE LIFTS A 600 GRAM WEIGHT WHILE USING A THREE-STRAND PULLEY, HE SHOULD EXPECT THE EFFORT REQUIRED TO A. BE DOUBLED. P. BF REDUCED BY ONE-HALF. C. BFCOMF ONE-THIRD AS MUCH. *D. REMAIN THE SAME. F. NONE OF THE ABOVE | 0611 |
| ************************************** | ***** |
| THE STUDENT WILL DISTINGUISH BETWEEN ACTUAL MECHANICAL ADVANTAGE AND IDEAL MECHANICAL ADVANTAGE BY SELECTING FACTORS INVOLVED IN THE CALCULATION OF FACH. %411 | 0098 |
| SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| THE IDEAL MECHANICAL ADVANTAGE OF A MACHINE HAS THE RELATIONSHIP TO THE ACTUAL MECHANICAL ADVANTAGE OF BEING A. LESS. | 0589 |
| R. EQUAL. *C. GREATER. D. NO RELIABLE RELATIONSHIP. | \circ |
| THE IDEAL MECHANICAL ADVANTAGE CAN BE CALCULATED BY FINDING THE RATIO OF A. WORK PUT IN/WORK DONE. B. EFFORT MADE/RESISTANCE OVERCOME. C. RESISTANCE OVERCOME/FFFORT MADE. *D. DISTANCE EFFORT MOVES/DISTANCE RESISTANCE MOVES. F. NONE OF THE ABOVE | 0590 |
| THE ACTUAL MECHANICAL ADVANTAGE CAN BE CALCULATED BY FINDING THE RATIO OF A. WORK DONE/EFFORT MADE. B. EFFORT MADE/RESISTANCE OVERCOME. *C. RESISTANCE OVERCOME/EFFORT MADE. D. EFFICIENCY/IDEAL MECHANICAL ADVANTAGE. F. NONE OF THE ABOVE | 0591 |
| WHICH OF THE FOLLOWING IS *NOT* INVOLVED IN COMPUTING IDEAL MECHANICAL ADVANTAGEO *A* FRICTION B* RESISTANCE DISTANCE *C* EFFORT DISTANCE | 0592 |
| C. EFFORT DISTANCE D. MACHINES F. NONE OF THE ABOVE | |
| · · · · · · · · · · · · · · · · · · · | |
| | |

THE STUDENT WILL SHOW KNOWLEDGE OF THE FUNCTIONS OF THE SIX SIMPLE MACHINES BY IDENTIFYING EXAMPLES OF EACH IN OPERATION.

| (| MATCH THE SIMPLE MACHINE WITH ITS EXAMPLE A. INCLINED PLANE B. LEVER C. PULLEY D. SCREW F. WEDGE F. WHEEL AND AXLE | |
|---|---|--------------|
| | RAMP *A | 1734 |
| | AXE *E | 1735 |
| | BOTTLE OPENER *B | 1736 |
| | WHFFLBARROW *F AND *B | 1737 |
| | AHTO JACK *D AND *B | 1738 |
| | CAN OPENER *B AND *E | 1739 |
| | CONVEYOR BELT *C AND *F | 1740 |
| | THE STUDENT WILL DEMONSTRATE HIS ABILITY TO DISTINGUISH BETWEEN MEASUREMENTS OF MASS AND VOLUME BY IDENTIFYING WHICH MEASUREMENT IS APPLICABLE TO A LIST OF EXAMPLES. %10m IN THE ITEMS LISTED BELOW, SOME ARE MEASUREMENTS OF MASS, SOME ARE VOLUME AND SOME ARE INDEFINITE. CIRCLE *A* IF THE ITEM MEASURES MASS *B* IF THE ITEM MEASURES VOLUME | 0180 |
| | *C* IF THE ITEM REPRESENTS AN INDEFINITE MEASUREMENT. | |
| | A* B C 2 1/2 POUNDS OF SAUSAGE | 1949 |
| | A B C* 2 MEDIUM SIZED APPLES | 1950 |
| | A R* C 3 CUBIC CENTIMETERS OF ALCOHOL | 1951 |
| | A* B C 4 GRAMS OF CUPRIC OXIDE | 1957 |
| | A R C* 4 DROPS OF VANILLA | 1953 |
| | A R* C 4 QUARTS OF MILK | 1954 |
| | A R C* 3 SLICES OF CHEESE | 1955 |
| | A B# C 3 1/2 CUPS OF SUGAR | 1956 |
| C | A* B C 5 TONS OF STONE A B C* 3 PIECES OF PIE | 1957 1958 |

| METRIC SYSTEM BY MATCHING THE TERMS WITH THEIR DEFINITION. %50 | 0101 |
|--|--------------------------|
| MATCH THE TERM WITH ITS CORRECT DEFINITION. | 5 |
| METER | 52 · · · |
| A. THE AMOUNT OF HEAT NEFDED TO RAISE THE TEMPERATURE OF ONE O | |
| GRAM OF WATER 1 C. *B. 1/10,000,000 OF A QUADRANT C. THE AMOUNT OF ENERGY IN A SOUND WAVE D. THE VOLUME OCCUPIED BY 1 KILOGRAM OF WATER AT A CERTAIN TEMPERATURE AND PRESSURE O | |
| F. THE WEIGHT OF 1 CUBIC CENTIMETER OF WATER AT 4 C. | |
| t ITFR | 53 |
| A. THE AMOUNT OF HEAT NEFDED TO RAISE THE TEMPERATURE OF ONE O | |
| GRAM OF WATER 1 C. B. 1/10.000.000 OF A QUADRANT C. THE AMOUNT OF ENERGY IN A SOUND WAVE *D. THE VOLUME OCCUPIED BY 1 KILOGRAM OF WATER AT A CERTAIN TEMPERATURE AND PRESSURE | |
| F. THE WEIGHT OF 1 CUBIC CENTIMETER OF WATER AT 4 C. | |
| GRAM | 54 |
| A. THE AMOUNT OF HEAT NEFDED TO RAISE THE TEMPERATURE OF ONE O | (|
| GRAM OF WATER 1 C. B. 1/10,000,000 OF A QUADRANT | 1/ |
| C. THE AMOUNT OF ENERGY IN A SOUND WAVE D. THE VOLUME ACCUPIED BY 1 KILOGRAM OF WATER AT A CERTAIN TEMPERATURE AND PRESSURE | |
| *E. THE WEIGHT OF 1 CUBIC CENTIMETER OF WATER AT 4 C. | |
| ************************************** | * * * * * * |
| THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF PREFIX VALUES IN THE METRIC SYSTEM BY IDENTIFYING NUMERAL VALUES FOR GIVEN METRIC MEASURES. %4311 | 0102 |
| SELECT THE ANSWER THAT IDENTIFIES THE EQUALITY. NOTE-# MEANS EQUALS | 0002 |
| 35 MFTFRS # MILLIMFTERS A. 350 | 18 |
| R. 3500 | |
| *C• 35000 D• 3•035 | |
| 27 METERS # CENTIMETERS | 19 |
| Λ. 2.7 B. 0.27 | \mathcal{L} |
| C. 270 *D. 2700 | |
| C + 1 METERS # DECIMETERS 116 | 20 |
| | |

| P. 0.51 C. 5100 D. 51000 | | | | |
|---|---------------|-----|-----------------------------------|----|
| 123 METERS # A• 1230 *B• 12•3 C• 1•23 D• 12300 | DEKAMFTERS | ÷ | | 21 |
| 23.7 METERS # A. 2370 B. 2.37 *C. 0.237 D. 237 | HECTOMETERS | . • | | 22 |
| 328 METERS # A • 32 • 8 B • 328000 #C • 0 • 328 D • 3 • 28 | KILOMFTERS | | | 23 |
| 83 LITERS # *A • 830 B • 8 • 3 C • • 83 D • 8300 | DECILITERS | | | 24 |
| 9•1 LITERS # A• 0•91 B• 0•091 *C• 91 D• 910 | CENTILITERS | | , . | 25 |
| 135 LITERS # *A• 135000 B• 13500 C• 3•135 D• 1350 | MILLILITERS | | | 26 |
| 372 LITERS # A• 3720 B• 37200 *C• 37•2 D• 3•72 | DEKALTTERS | | | 27 |
| 56 LITERS # A | HECTOLITERS | | | 28 |
| 4.3 LITERS # *A. 0.0043 B. 0.043 C. 4300 D. 0.43 | KILOLITERS | · | | 29 |
| 365 GRAMS # A • 36 • 5 B • 3 • 65 | DECIGRAMS 117 | • | a park yyther Sarie y Aaren | 30 |

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| | • | | |
|--|--------------|-----|---------------|
| ⊭C• 3650 D• 36500 | | • | |
| 84.95 GRAMS # A. 849.5 B. 0.8495 C. 8.495 #D. 8495 | CENTIGRAMS | | 31 . , |
| 1.9 GRAMS # #A. 1900 P. 190 C. 0.0019 D. 0.019 | MILLIGRAMS | | 32 |
| 631 GRAMS # A • 6 • 31 B • 6310 *C • 63 • 1 D • 63100 | DEKAGRAMS | | 33 |
| 37.3 GRAMS # A. 3.73 B. 3730 C. 373 *D. 0.373 | HECTOGRAMS | | 34 |
| 13 GRAMS # | KILOGRAMS | | 35 |
| #A. 0.013 | | | |
| R. 1.3 | | | |
| C• 0•13 D• 13000 | | | |
| 17.6 13000 | | • | |
| 175 DEKAMETERS # A • 12.5 B • 1250 #C • 12500 D • 125000 | DFCIMETERS | | 36 |
| 24 HECTOGRAMS # #A • 240+000 B • 2400 C • 2+400+000 D • 0-0024 | CENTIGRAMS | · · | 37 |
| 4.95 KILOGRAMS # A. 495.000.000 #R. 4.950.000 C. 49500 D. 0.00495 | MILLIGRAMS | | |
| 8,76 MILLIMETERS A. 0.0876 B. 0.0876 | # DFKAMETERS | | 39 |
| *C. 0.000876 .D. 876.000 | | | |
| 237 CENTILITERS # *A. 0.00237 | KILOLITERS | ¥., | 40 |
| ERIC R. 0.00000237 | 440 | | i |
| A Total Read Provided Style EMC. C. 23.7 | 118 | | |
| | | | |

D. 2370 999.111 DEKALITERS # KILOLITERS 41 A. •0999111 B. 9991.11 C. 99911.1 *D. 9.99111 796.31 DECIGRAMS # KILOGRAMS 42 *A. 0.079631 B. 0.79631 C. 0.0000079631 D. 7.9631 · 1234.5 MILLIMETERS # 43 KILOMETERS Λ. 1,234,500,000 B. 123450 C. 1.2345 *D. 0.0012345 89.7 DEKAMETERS # MILLIMETERS 44 A. 8970 *P. 897.000 C. 0.0897 D. 0.897 45 CENTILITERS 1.256 HECTOLITERS # A. 12.560.000 B. 125600 *C. 12560 D. 1256 MATCH THE MEASUREMENT WITH ITS CORRESPONDING METRIC PREFIX. 0001 1/10 OF A UNIT 2 A. MICRO *R. DECI C. DEKA D. MILLI E. CENTI 1/100 OF A UNIT A. MICRO B. DECI C. DEKA . D. MILLI *E. CENTI 1/1000 OF A UNIT A. MICRO B. DECI C. DEKA *D. MILLI E. CENTI 1/1,000,000 OF A UNIT

*A. MICRO B. DECI

| | DEKA | | | | | |
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| | CENTI | | | | • | |
| Α. | OF A MICRO | UŅĪT | , , | | | 6 : |
| C• D• | DEKA MILLI CENTI | | · | | | |
| Α. | 2 OF A MICRO | UNIT | | | | 7 |
| C. D. | DECI DEKA MILLI CENTI | | | • | | |
| | 3 | | | | A Company | 8 |
| A . B . | OF A MICRO DECI | UNIT | | : | | |
| *D. | DEKA MILLI CENTI | | | | | |
| | 6 OF A | UNIT | | | | · 9 |
| R. | MICRO DECI | | | | | ્યું. |
| D ₄ | DEKA MILLI CENTI | 2. j | | | | |
| | THE UN | IT | | | | 10 |
| B. | MEGA DEKA | • | | | | • |
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| A a | X THE U KILO MEGA DEKA | NIT _ | | | • | 11 |
| D. | DECI HECTO | | | | | |
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| D. | DEKADECIHFCTO | · | | | | |
| | | THE UNIT | | | | 13 |
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| - c. | • DEKA | | | 120 | • | |

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*B. MEGA
C. DEKA

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| | MAIC | H THE ENGLISH | AND METRIC | EGUIVALENI | • | | | • | 6 |
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| | | 10 MILES 0.621 MILES | | | | | , | | |
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| | | 1 INCH | | | | | | | |
| | . • | 3 FEET | | | • | | | | |
| | | TER | , | | | • | | | 56 |
| | | . 10 MİLFS . 0.621 MILES | · . | | | | • | | |
| | * C• | 39.37 INCHES | | | | • | | | |
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| | €. | 3 FEET | | | | | | | |
| | | ILOMETER . | | | | | | | . 57 |
| | | • 10 MILES • 0•621 MILES | · · | | | | | | |
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| - | | ILOGRAM | | • | | • | | | 58 |
| • | | • 2•2 LBS• %AP • 0•394 LBS• % | | | | | | | |
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| □ • | 1400 GOARIS MAPPROXEL | | | | | | |
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| R • C • D • | ER 7.2 LBS. %APPROX.¤ 0.394 LBS. %APPROX.¤ 0.035 OZ. %APPROX.¤ 0.621 QUARTS %APPROX.¤ 1.06 QUARTS %APPROX.¤ | | | | | | 59 |
| β• *C• D• | M 2.2 LBS. %APPROX. 0.394 LBS. %APPROX. 0.035 OZ. %APPROX. 0.621 QUARTS %APPROX. 1036 QUARTS %APPROX. | | | | | | 60 |
| B• C• D• | CHES 20 METERS 2 METERS 10 KILOMETERS 1 KILOMETER 7.62 CM | ÷ | | | | ٠ | 61 |
| A. B. *C. D. | MILES 20 METERS 2 METERS 10 KILOMETERS 1 KILOMETER 7.62 CM | | | | | | 62 |
| *B• C• D• | 20 METERS 2 METERS 10 KILOMETERS 1 *ILOMETER 7.62 CM | | | | | | 63 |
| *B. C. D. | LBS. 2 LITERS %APPROX. 3 KILOGRAMS %APPROX. 2 KILOLITER %APPROX. 100 GRAMS %APPROX. 3 GRAMS %APPROX. | | | · | | | 64 |
| B • C • *D • | OZ. 2 LITERS %APPROX. 3 KILOGRAMS %APPROX. 2 KILOLITER %APPROX. 100 GRAMS %APPROX. 3 GRAMS %APPROX. | | | | | | 65 |
| #A. B. C. D. | QUARTS 2 6ITERS %APPROX.m 3 KILOGRAMS %APPROX.m 2 KILOLITER %APPROX.m 100 GRAMS %APPROX.m 3 GRAMS %APPROX.m | | · | | | | 66 |

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| | THE STUDENT WILL APPLY HIS KNOWLEDGE OF METRIC UNITS OF MEASURE BY IDENTIFYING THE UNIT THAT WOULD BEST DESCRIBE A DISTANCE OR QUANTITY IN A GIVEN HYPOTHETICAL SITUATION. %100 | 0104 |
|----------|---|--------|
| | SELECT THE METRIC UNIT OF MEASURE THAT WOULD BEST IDENTIFY A SITUATION. | 0007 |
| | THE DISTANCE FROM MILWAUKEF TO CHICAGO WOULD BE RECORDED IN WHICH METRIC UNITO A. LITERS **B. KILOMETERS C. MTLLIMETERS D. KILOGRAMS | 0069 |
| | THE LENGTH OF THIS ROOM WOULD BE RECORDED IN WHICH METRIC UNITO *A. METERS B. LITERS C. KILOMETERS D. MILLIMETERS | - 0070 |
| | THE LENGTH OF THIS PAPER WOULD BE RECORDED IN WHICH METRIC UNITO A. METERS B. KILOMETERS *C. CENTIMETERS D. MILLIGRAMS | 0071 |
| <u> </u> | THE HEIGHT OF A TYPED LETTER WOULD BE RECORDED IN WHICH METRIC UNITO A. METERS B. KILOMETERS *C. MILLIMETERS D. LITERS | 0072 |
| | THE WEIGHT OF THE PENCIL YOU ARE USING WOULD BE RECORDED IN WHICH METRIC UNITO A. LITERS *B. GRAMS C. KILOGRAMS D. METERS | 0073 |
| | YOUR WEIGHT WOULD BE RECORDED IN WHICH METRIC UNITO A. GRAMS *B. KILOGRAMS C. MILLIGRAMS D. LITERS F. METERS | 0074 |
| | THE AMOUNT OF WATER USED IN A HOME IN ONE DAY WOULD BE RECORDED IN WHICH METRIC UNITO A. METERS *B. LITERS C. GRAMS D. MILLILITERS | 0075 |
| (| THE AMOUNT OF BLOOD IN THE BODY WOULD BE RECORDED IN WHICH METRIC UNITO A. METERS R. MILLILITERS *C. LITERS D. MILLILITERS | 0076 |
| IN . | De LITERTET LEVO | |

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42.3

| • | THE VOLUME OF A JUICE GLASS WOULD BE RECORDED IN WHICH METRIC | 0077 |
|---|--|---------------|
| | UNITO #A. MILLILITERS | |
|) | 8. KILOLITERS | ,- • <u>,</u> |
| | C. GRAMS | () |
| | D. MILLIGRAMS | |
| | | |
| | * * * * * * * * * * * * * * * * * * * | ***** |
| | | |
| | THE STUDENT WILL APPLY HIS KNOWLEDGE OF METRIC QUANTITIES BY IDENTIFYING NUMERICAL VALUES WHICH ARE EXPRESSED IN DIFFERENT | 0105 |
| | METRIC UNITS. %100 | |
| | | |
| | CONVERT ALL UNITS OF MEASURE TO THE LARGEST UNIT AND SELECT THE | 0003 |
| | CORRECT ANSWER. | |
| | 32 CENTIMETERS & 16 DECIMETERS & 2 METERS EQUAL | 0046 |
| | *A. 3.92 METERS | 00.0 |
| | R. 50 METERS | |
| | C. 500 DECIMETERS D. 39.2 DECIMETERS | |
| | E. 392 CENTIMETERS | |
| | | |
| | 253 CENTIGRAMS & 7 KILOGRAMS & 11 GRAMS EQUAL | 0047 |
| | A. 271000 GRAMS B. 271 KILOGRAMS | |
| | *C. 7.01353 KILOGRAMS | |
| | D. 7.00011253 KILOGRAMS | بالمسر |
| | E. 7013.53 GRAMS | () |
| | 24 DEKAGRAMS - 972 DECIGRAMS EQUAL | 48 |
| | A 996 DEKAGRAMS | • * |
| | B. 996 DECIGRAMS | |
| • | C. 1428 DECIGRAMS *D. 14.28 DEKAGRAMS | • |
| | "DE 1-100 DERNOMMO | |
| | CONVERT ALL UNITS OF MEASURE TO THE SMALLEST UNIT AND SELECT THE | 0004 |
| | CORRECT ANSWER. | • |
| | 234 MILLILITERS & 38.76 MILLILITERS & 9 DECILITERS EQUALS | 0049 |
| | A. 28.176 DECILITERS | |
| | B. 2817.6 MILLILITERS | |
| | C. 4010 MILLILITERS *D. 1172.76 MILLILITERS | • |
| ! | E. 11.7276 DECILITERS | · |
| • | | |
| | 38 GRAMS & 71 CENTIGRAMS - 105 MILLIGRAMS EQUALS | 0050 |
| | A. 38805 MILLIGRAMS B. 4 GRAMS | • |
| ! | *C. 38605 MILLIGRAMS | |
| | D. 214 GRAMS | |
| , | E. 37185 MILLIGRAMS | • |
| ĺ | 10 KILOMETERS - 12.5 HECTOMETERS - 31 METERS EQUALS | 0051 /** |
| | A. 12.531 KILOMETERS | |
| | 8. 53.5 KILOMETERS | |
| | C. 43.5 METERS O)2531 METERS | |
| | EDIC: 9710 METERC | 4.5 |
| t | 124 | |
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| 美河 电奥提斯特拉 英国语的复数 野型等发发错的 | ******** | **** | ***** | **** | **** | **** |
|---|---------------|----------------|----------|------------|--|--------------|
| SELECT THE ANSWER TH | AT IDENTIFIE | S THE EQUALITY | • | | | ? |
| METRIC TON EQUALS | | | | | | 67 |
| 6 *A• 10 GRAMS | | · | | | | |
| 6 | | | • | · | | |
| B• 1/10 GRAMS 6 | | | | | | : |
| C. 1710 METER 6 | | | | | | |
| D. 10 METERS | | | | | | |
| 1 MICRON EQUALS | · | | | | | . 68 |
| A. 10 GRAMS | •• | · | • | • | | |
| 6 B. 1/10 GRAMS | | | | | | |
| 6 *C. 1/10 METERS | | , | | | | • |
| | | | | • | | • |
| D. 10 METERS 6 | • | | | | , | • |
| | | | | . 9 | | |
| **** | **** | | *** | **** | ************************************** | ***** |
| A UNIT OF MEASUREMEN A INCHES SQUARED *8 • MM | • | | T LINE D | ISTANCE IS | A | 1062 |
| 3 | | | | • | • | |
| C • CM | · | | | | • | |
| AN EQUAL ARM BALANCE | MEASURES | | | | | 1063 |
| B • VOLUMF • . C • AREA • | | | • • | | ٠. | |
| D. LENGTH. | | | • | • | | , |
| THE AMOUNT OF SPACE | A BODY TAKES | S UP IS ITS | | | | 1064 |
| A • AREA • B • LINEAR SIŻE • | , | | | • | | |
| | | | | | | • |
| C. HEIGHT. | | · · | • | • | | |
| *D. VOLUME. | | | _ | | | 1045 |
| | CF MAY ALWAYS | S BE CALLED IT | 5 | | | 1065 |
| *D. VOLUME. THE SIZE OF A SURFACE *A. AREA. B. LINEAR SIZE. | CF MAY ALWAY: | S BE CALLED IT | S | | | 1065 |
| *D. VOLUME. THE SIZE OF A SURFACE *A. AREA. | CE MAY ALWAY: | S BE CALLED IT | S | | | 1065 |
| *D. VOLUME. THE SIZE OF A SURFACE *A. AREA. B. LINEAR SIZE. C. HEIGHT. D. VOLUME. MASS IS EXPRESSED 16 | | S BE CALLED IT | S | | | 1065 1066 |
| *D. VOLUME. THE SIZE OF A SURFACE *A. AREA. B. LINEAR SIZE. C. HEIGHT. D. VOLUME. MASS IS EXPRESSED IN A. DEGREES. | | S BE CALLED IT | S | | | |
| *D. VOLUME. THE SIZE OF A SURFACE *A. AREA. B. LINEAR SIZE. C. HEIGHT. D. VOLUME. MASS IS EXPRESSED 16 | N | 5 BE CALLED IT | S | | | |

ERIC Foultant Provided by ERIC

D. NEWTON-METERS. MASS IS 1057 *A. THE QUANTITY OF MATTER THAT IS IN A SUBSTANCE. R. THE SIZE OF AN OBJECT. C. THE QUANTITY OF MATTER PER UNIT VOLUME. D. THE TOTAL NUMBER OF CM IN A SUBSTANCE. TOOLS & TECHNIQUES THE STUDENT WILL APPLY HIS KNOWLEDGE OF LABORATORY SAFETY 0107 PROCEDURES BY IDENTIFYING THE DESCRIPTION THAT REPRESENTS AN INDIVIDUALS PROPER BEHAVIOR IN LABORATORY SITUATIONS. %60 SFLECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. 0010 IF YOU ACCIDENTLY SPILLED SOME ACID, YOU WOULD 0832 A. CLEAN IT UP IMMEDIATELY WITH PAPER TOWELS. *H. NEUTRALIZE IT WITH AMMONIUM HYDROXIDE. C. DILUTE IT AT ONCE WITH WATER. D. NONE OF THE ABOVE WHEN POURING WATER AND ACID TOGETHER. YOU ALWAYS 0833 *A. POUR ACID INTO WATER. B. POUR WATER INTO ACID. C. POUR THEM BOTH AT THE SAME TIME. D. ANY OF THE ABOVE WOULD BE SAFE. WHEN USING A HEATED GENERATOR BOTTLE AND COLLECTING BY WATER ... 0834 DISPLACEMENT IT IS NECESSARY TO A. REMOVE THE HEAT SOURCE BEFORE REMOVING THE DELIVERY TUBE. B. BLOCK OFF THE DELIVERY TUBE THEN REMOVE FROM WATER. *C. REMOVE THE DELIVERY TUBE BEFORE YOU REMOVE THE HEAT. D. NONE OF THE ABOVE PROCEDURES 0835 WHEN HEATING A LIQUID IN A TEST TUBE, ALWAYS A. POINT THE TUBE STRAIGHT UP. B. POINT THE TUBE TOWARD YOURSELF. C. BE SURF TO STOPPER THE TUBE FIRST. *D. AIM THE TUBE TO WHERE NO ONE IS WORKING. E. NONE OF THE ABOVE IF YOU SHOULD GET ACID ON YOUR HAND, YOU SHOULD 0836 A. WIPE IT OFF WITH A TOWEL. *B. RINSE IT OFF WITH WATER. C. NEUTRALIZE IT WITH AMMONIUM HYDROXIDE. D. COVER THE AREA WITH SODIUM BICARBONATE. F. NONE OF THE ABOVE IF YOU FOUND AN UNKNOWN LIQUID SPILLED ON A LAB TABLE, WHAT WOULD YOU DO FIRSTO *A. TEST IT WITH LITMUS PAPER B. POUR ON AMMONIUM HYDROXIDE

C. RINSE IT OFF WITH WATER

D. NONE OF THE ABOVE

| | · | |
|-----|---|-------|
| | ************************************** | **** |
| | THE STUDENT WILL DEMONSTRATE UNDERSTANDING OF THE RULES FOR CONVERSION OF LARGE AND SMALL NUMBERS TO STANDARD SCIENTIFIC NOTATION BY SELECTING NUMBERS CORRECTLY EXPRESSED IN SCIENTIFIC NOTATION. %611 | 0108 |
| | SELECT THE ANSWER THAT IDENTIFIES THE EQUALITY. | 2 |
| | THE NUMBER 46,200,000 CAN BE EXPRESSED IN STANDARD SCIENTIFIC NOTATION BY USING WHICH ONE OF THE FOLLOWING. | 0700 |
| | *A. 462 X 10 | |
| • | B. 46.2 X 10 | • |
| | 8 C. 4.62 X 10 D. NONE OF THE ABOVE | |
| | EXPRESSED IN STANDARD SCIENTIFIC NOTATION. THE NUMBER 100,000 WOULD LOOK LIKE WHICH ONE OF THE FOLLOWING. | 0701 |
| | A. 10.0 X 10 | |
| | 6. 1.00 X 10 | • |
| | *C• 1•0 X 10 | |
| | THE NUMBER 105,000,000 CAN BE CONVERTED TO WHICH OF THE FOLLOWING. | 0702 |
| | A. 10.5 X 10 7 | |
| | B. 10.5 X 10 | |
| | C• 1•5 X 10 | . • . |
| | *D. NONE OF THE ABOVE | |
| | ALPHA CENTAURI IS APPROXIMATELY 2.58 X 10 MILES FROM THE EARTH WHEN EXPRESSED IN STANDARD SCIENTIFIC NOTATION. EXPRESS THIS AS | 0704 |
| | A WHOLE NUMBER. A. 258,000,000,000 | |
| | B. 2,580,000,000,000 *C. 25,800,000,000 | |
| | D. NONE OF THE ABOVE | |
| | ** ** ** ** ** ** ** ** ** ** ** ** ** | ***** |
| | THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE COMPOUND MICROSCOPE BY IDENTIFYING THE DIFFERENT PARTS AND THEIR USES. %290 | 0109 |
| e e | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| 4 | THE HEAVY BOTTOM PART OF THE MICROSCOPE IS CALLED A. THE STAGE. *B. THE BASE. | 0480 |
| | C. THE ARM. | • |
| | D. THE EYEPIECE. | |

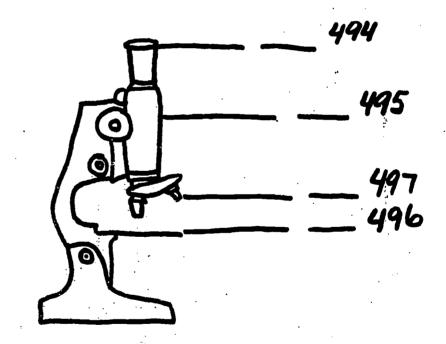
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|----------------------|---|------------------|---------------|---------------------------------------|----------|-----|
| *A. 1 | ASE OF THE MICROSCOPE THE HEAVY BOTTOM PART. | | | · · · | 481 | |
| R. 1 | THE PART ONE LOOKS THE THE PART THAT HOLDS THE | OUGH. | ** • • | | | ï |
| D•' 1 | THE PART ON WHICH SLIC | DES REST. | | . • | | |
| | YEPIECE OF THE MICROSC | | THAT | | 0482 | |
| B . I | CONTROLS THE AMOUNT OF HOLDS THE LENSES. | | | | | |
| *C. (| ONE LOOKS THROUGH. SUPPORTS THE TÜBE. | | | e e e e e e e e e e e e e e e e e e e | | |
| | ART OF THE MICROSCOPE | THAT ONE LOOKS | THROUGH IS CA | ALLED | 0483 | |
| B. | THE NOSE PIECE. THE TUBE. | | • | | • . | |
| | THE EYEPIECE. | | • | | | |
| THE P | ART OF THE MICROSCOPE | THAT CONTROLS TH | HE AMOUNT OF | LIGHT IS . | 0484 | |
| CALLE | D THE NOSEPIECE. | | | • | | |
| B • | THE EYEPIECE. | CAIT. | | • .•• | | • |
| | THE DIAPHRAGM ADJUSTME THE COARSE ADJUSTMENT | | | _ | | |
| | UNCTION OF DIAPHRAGM | | E MICROSCOPE | IS | 0485 | ı |
| *B. | TO RAISE THE OBJECTIVE TO CONTROL THE AMOUNT | OF LIGHT. | • | • : | (| () |
| | TO MOVE THE EYEPIECE. TO FOCUS THE LENS. | • | | | • | , , |
| | PURPOSE OF THE MIRROR | | | • | 486 | • . |
| | TO REFLECT LIGHT INTO TO CUT DOWN ON THE LIG | | | E. | | |
| C• | TO INCREASE THE SIZE OF | OF MATERIAL ON S | LIDES. | | | |
| | DBJECTIVE LENSES OF THE | | | | 0487 | , . |
| ΄ Λ• | THE EYEPIECE. | | | ٠. | . | |
| C. | THE STAGE. THE ARM. | | | | | |
| | THE WORD WITH ITS CO | RRESPONDING MICR | OSCOPE PART. | | 0016 | 5 |
| OCULA | · | | ٠ | • | . 488 | 3 |
| Α. | LFNS BARREL | | | | | |
| *C. | EYEP IECF | | | | | |
| • | DIAPHRAGM | | | | | |
|)3LA0 • A* | CTIVF LENS | - · · · · · · | | | 489 | 9 . |
| | BARREL EYEPIECE | . ' | | | | () |
| | DIAPHRAGM | | | : | | • |
| THE E | i Enc | | | | 490 | 0 |
| | BARREL | 128 | | | 1 3 West | |
| į | | | | | | |

C. EYEDIECE

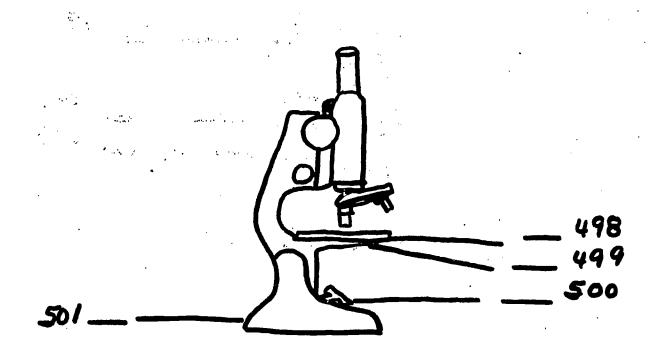
| | _ | | | | |
|----|--------------|----|----|----|-----|
| D. | \mathbf{D} | ΙΑ | РΗ | R/ | ٩GM |

| | THE PART OF THE MICROSCOPE USED TO MAKE THE SPECIMEN VISIBLE IS | 0491 |
|---|---|------|
| | CALLED | |
| - | · A. THE FINE ADJUSTMENT. | |
| | *B. THE COARSE ADJUSTMENT. | • |
| | C. THE DIAPHRAGM ADJUSTMENT. | |
| | D. THE BASE ADJUSTMENT. | |
| | | |
| | SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| | TO CORRECT THE FOCUS OF A SPECIMEN ONE WOULD USE | 0492 |
| | A. THE BASE ADJUSTMENT. | |
| | B. THE DIAPHRAGM ADJUSTMENT. | |
| | *C. THE FINE ADJUSTMENT. | |
| | D. THE COARSE ADJUSTMENT. | |
| | THE POINT AT WHICH A CLEAR IMAGE IS PRODUCED IS CALLED | 0493 |
| | A. MAGNIFICATION. | |
| | *B. FOCUS. | • |
| | C. OBJECTIVE. | |
| | Co other trace | |





| IN THE SPACE PROVIDED PLACE THE STRUCTURE IT IDENTIFIES. | LETTER THAT CORRESPONDS TO THE | 0009 |
|--|--------------------------------|------|
| A. TUBE B. NOSEPIECE C. BASE D. OBJECTIVE *F. EYFPIECE | | 49. |
| #A. TUBF B. NOSEPIECE C. BASE D. OBJECTIVE E. EYEPIECE | | 495 |
| A. TUBE **B. STAGE C. BASE D. OBJECTIVE E. EYEPIECE | | 496 |
| A. TUBE B. NOSEPIECE C. BASE *D. OBJECTIVE | | 497 |



| | 2000 | | 498 |
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| | RROR JFCTIVE | | サンド |
| | IJECTIVE ISE | • | • |
| C → BA | | | • |
| *D• ST | | | |
| r. Di | APHRAGM | | |
| • | 2000 | | , |
| A. MI | | | 499 |
| | BJECTIVE | | ٠ |
| C. BA | ASE | | |
| D. ST | · | | |
| | APHRAGM | | |
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| *A. MI | RROR | | 500 |
| | BJECTIVE | | |
| C. BA | | | |
| C • BA | | | |
| | • | | |
| . c Di | IAPHRAGM | | |
| | DDCD | | £ ^ * |
| A • MI | | • | 501 |
| • | BJECTIVE | | |
| *C • BA | · | | • |
| D. 51 | TAGE | | |
| | IAPHRAGM | | |
| | | | |
| | TAL MAGNIFICATION OF THE MICROSCOPE IS DETERMINED BY | | 0505 |
| | DDING THE MAGNIFICATIONS OF THE OCCULAR AND THE EYEP | | |
| *B. ML | ULTIPLYING THE MAGNIFICATIONS OF THE EYEPIECE AND TH | | |
| OE | BJECTIVE. | • | |
| | DDING THE MAGNIFICATIONS OF THE EYEPIECE AND THE | | |
| | BJECTIVE. | • | |
| | BJECTIVE. ULTIPLYING THE MAGNIFICATIONS OF THE OCULAR AND THE | · | |
| | YEPIECE. | | |
| E | | | |
| TUE **** | SKING #104# ON THE EVEDIECE MEANS THAT IT | | 0506 |
| | RKING #10X# ON THE EYEPIECE MEANS THAT IT | | . JUE |
| | AGNIFIES 100 TIMES. | · | |
| | AGNIFIES 10 TIMES. | | • • |
| | S 10 CENTIMETERS LONG. | | • |
| | • | _ | |
| | TAL MAGNIFICATION OF A MICROSCOPE WITH AN EYEPIECE O |)F | 0507 |
| *10X* | AND A LOW-POWER OBJECTIVE OF *10X* IS | | 0507 |
| A• 1 | | | |
| *B• 1 | | : · · · · | |
| *B• 1 | | | • |
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| ט• 1 | 0000 • | | |
| . • | TA LINIA THE NEAR OF THE THE TANK THE | • | |
| | E IS HELD IN PLACE ON THE STAGE OF THE MICROSCOPE BY | Y | 0508 |
| A • A | RMS • | | |
| | ASES • | | |
| | LIPS | | |
| | DIAPHRAGMS • | | |
| 0 • 0 | · | | • |
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| 水水水水水 | ************************************** | | ज. न स न्त्रेत्रे |
| THE ~= | UDENT WILL SHOW KNOWLEDGE OF THE SCIENTIFIC METHOD F | FOR | 011 |
| וחב \$1 - מממם | M COLVING BY INFAITIEVIAG THE CORRECT ORDER TO | | 4 |
| | M SOLVING BY IDENTIFYING THE CORRECT ORDER FOR THE | • . | • • |
| PRINCI | IPLE STEPS. %70 | | |
| | The second secon | | |
| IDENT1 | IFY THE STEPS OF THE SCIENTIFIC METHOD. | | 1 |
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FORMULATE A HYPOTHESIS.

| Α. | FIRST STEP | | | | | | | | |
|---|---|--|--------------------------|-------------|----------|--------------|--|---------------------------|--|
| | SECOND STEP | | | | | | | | |
| | THIRD STEP | | | | • | | | | |
| | FOURTH STEP | | | | | | | | |
| | FIFTH STEP | | | • | | | • | | |
| | NOT A STEP | | | | | | | | |
| , • | HOT A STEP | | | | | | | | |
| IDEN | TIEV AND CLEAD | LV CTATE | A DDC | NDI CM | | | | | 600 |
| | TIFY AND CLEAR | LT STATE | A PRU | IDEEM • | | • | • | | 600 |
| | FIRST STEP | | | | | | | | |
| | SECOND STEP | • | | | | | | | |
| | THIRD STEP | | | | • | • | • | | |
| | FOURTH STEP | | | | | • | | | |
| | FIFTH STEP | • | | • | | | | | |
| P • | NOT A STEP | • | | | • | • | • | | |
| DICT | INCLUSED DETWEE | N A CAET | AND | HIDOMENI | • | | | | 0601 |
| | INGUISH RETWEE | N A FACT | ANU J | JUDOMEN I | • | | | . • | 0601 |
| | FIRST STEP | | , | | | | • | | • |
| | SECOND STEP | | | | | • | | | |
| | THIRD STEP | | | | | | | | |
| | FOURTH STEP | | | | | • . | | | |
| | FIFTH STEP | | | | | | | | |
| WF . | NOT A SIEP | | | | | • | | • | • |
| COLL | ECT AND ORGANI | TE DATA | | | • | | | | 602 |
| | FIRST STEP | LE DAINS | | | • | 6.5 | 1.1 | | 002 |
| | SECOND STEP | * | | • | | | | | |
| | THIRD STEP | | | | • | | | | , |
| | FOURTH STEP | | | | | | | | • |
| | FIFTH STEP | | : | | | • | | | |
| | NOT A STEP | | | | | | | • | |
| | I NOT A SICE | • | | • | | | | | |
| RECO | OGNIZE SIMILARI | ITIES AND | DIFF | FRENCES | IN THE | COMPONENTS | OF THE | | 0603 |
| | RONMENT. | HICS MID | DITT | - IVEIN, LO | 114 1116 | COME OHEN 12 | OI THE | • | 0000 |
| | FIRST STEP | | | | • | • | | | |
| | SECOND STEP | | | | | | | | |
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| | LIMINI) STED | | • | | | | | | |
| | THIRD STEP | | • | | | | | | |
| D. | FOURTH STEP | | | | | | | | |
| D. E. | FOURTH STEP | | | | | | | | . • |
| D. E. | FOURTH STEP | | | | | | | | . • |
| E *F | FOURTH STEP FIFTH STEP NOT A STEP | | | · | | | | | 604 |
| DRAV | FOURTH STEP FIFTH STEP NOT A STEP VINFERFNCES FR | ROM DATA. | | · | | | | | 604 |
| D. E. *F. | FOURTH STEP FIFTH STEP NOT A STEP VINFERFNCES FF FIRST STEP | ROM DATA. | | | | | | | 604 |
| DRAV | FOURTH STEP FIFTH STEP NOT A STEP VINFERFNCES FF FIRST STEP SECOND STEP | ROM DATA. | | · | | | | | 604 |
| DRAV | FOURTH STEP FIFTH STEP NOT A STEP VINFERFNCES FF FIRST STEP SECOND STEP THIRD STEP | | | · | | | | | 604 |
| DRAV | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP | | | | | | | | 604 |
| DRAV DRAV A B C D #E | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP FIFTH STEP | | | | | | | | 604 |
| DRAV DRAV A B C D #E | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP | | | | | | | | 604 |
| DRAV DRAV A B C D #E | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP FIFTH STEP | | | | | | | | 604 |
| DRAV DRAV A B C D #E | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP FIFTH STEP | | 装 資格情情 | 黄春春春春春春 | | | · ** ** ** ** ** ** ** ** | 有条件 新 | 604 |
| DRAV DRAV A B C D #E | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP FIFTH STEP | | *** | *** | *** | ***** | ·****** | **** | 604 ***** |
| DE #F DRAW ARCD #F #### THE | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP FIFTH STEP NOT A STEP | ########### | ***** | | | | ###################################### | 有条件 数 等 | ###################################### |
| DE #F DRAV | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP NOT A STEP STUDENT WILL FIGRADE TEMPER | ######## DEMONSTRA ATURE SCA | ***** TE UNI | | | | ************************************** | ****** | 604 ***** |
| DE #F DRAV | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP FIFTH STEP NOT A STEP | ######## DEMONSTRA ATURE SCA | ***** TE UNI | | | | ************************************** | **** | ###################################### |
| DE *F DRAW ARC D *F **** THE CENT RELATIONS TO THE THE CENT RELATIONS TO THE | FOURTH STEP FIFTH STEP NOT A STEP NINFERFNCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP NOT A STEP STUDENT WILL TIGRADE TEMPER ATIONSHIPS OF | ************************************** | ***** TE UNI LES B | Y IDENT | IFYING A | ANALOGOUS | | **** | ************************************** |
| DE *F DRAW ARC D *F **** THE CENT RELATIONS TO THE THE CENT RELATIONS TO THE | FOURTH STEP FIFTH STEP NOT A STEP INFERENCES FF FIRST STEP SECOND STEP THIRD STEP FOURTH STEP NOT A STEP STUDENT WILL FIGRADE TEMPER | ************************************** | ***** TE UNI LES B | Y IDENT | IFYING A | ANALOGOUS | | 有条件 新 | ###################################### |

B. ALCOHOL.

IS OFF-CENTER TO THE RIGHT.

- D. OILING THE MOVING PARTS.
- E. MOVING THE RIDER ON RIGHT SIDE OF THE BEAM TO THE LEFT, IF THE POINTER IS OFF-CENTER TO THE RIGHT.

A STUDENT WEIGHS AN OBJECT ON AN EQUAL-ARM BALANCE. BY MISTAKE HE PLACES THE OBJECT HE IS WEIGHING ON THE RIGHT PAN. HE BALANCES THE OBJECT BY PLACING 23 BEADS ON THE LEFT PAN AND BY MOVING THE RIDER ON THE RIGHT BEAM TO .36 BEADS. THE MASS OF THE OBJECT COULD STILL BE CALCULATED AND WAS FOUND TO BE

1071

A . 23 . 36 RFADS.

- B. 23.64 READS.
- C. 22.36 RFADS.
- D. 24.64 NEADS.
- *E . 22.64 BFADS.

THE STUDENT CAN ANALYZE A PROBLEM SITUATION BY SELECTING A BASIC OFFSTION FROM A SET OF QUESTIONS THAT NEEDS TO BE ANSWERED IN ORDER TO SOLVE THE PROBLEM SITUATION. %30

0169

A STUDENT WANTED TO UNDERSTAND HOW HE STAYS UPRIGHT ON A BICYCLE. WHICH OF THE FOLLOWING STATED QUESTIONS IS THE MOST BASIC QUESTION TO BE ANSWERED.

1873

- A. DOES THE SPINNING OF THE WHEELS HAVE ANYTHING TO DO WITH BALANCING ON A BIKEO
- B. IS THE BIKE RIDER ON HIS BIKE LIKE A PERSON ON A SEE-SAWO
- *C. WHEN ANYTHING IS BALANCED, IT IS BALANCED AGAINST SOMETHING FLSF. IF A BIKE RIDER BALANCES HIMSELF ON A BIKE, WHAT IS HE BALANCING AGAINSTO
- D. HOW DOES THE MOTION OF THE BIKE EFFECT A RIDERS ABILITY TO RIDE A BIKEO

IF THERE IS NO FILAMENT IN A NEON LIGHT. HOW CAN IT LIGHT UPO WHICH OF THE FOLLOWING QUESTIONS IS THE MOST BASIC QUESTION TO BE ANSWEREDO

1874

- A. WHAT PARTS ARE USED IN A NEON LIGHTO
- B. DOES THE COLOR OF LIGHT HAVE ANYTHING TO DO WITH THE OPERATION OF A NEON LIGHTO
- *C. WHAT HAPPENS TO THE ELECTRICITY IN A NEON LIGHTO
- D. IS THERE A SPECIAL SUBSTANCE AT THE END OF THE TUBEO

ONE OF THE SAFEST PLACES TO BE DURING AN ELECTRICAL STORM IS IN A CLOSED CAR. WHYO WHICH OF THE FOLLOWING QUESTIONS IS THE MOST BASIC QUESTION TO BE ANSWEREDO

1875

- *A. WHY CAN'T THE ELECTRICITY IN A LIGHTNING BOLT REACH A PERSON INSIDE A CLOSED CARO
 - B. WHY MUST THE CAR BE CLOSEDO
 - C. WHAT INSULATION DOES THE CAR'S TIRES PROVIDED
 - D. IF THE CAR WAS MADE COMPLETELY OUT OF METAL: WOULD THERE STILL BE TRUEO

THE STUDENT CAN ANALYZE A GENERALIZATION BY SELECTING FACTS WHICH DO NOT SUPPORT THE GENERALIZATION. %20

0170

ERIC

WHICH OF THE FOLLOWING FACTS DOES NOT SUPPORT THE GENERALIZATION.

- A. A JET FLIES FASTER AND FASTER AS MORE POWER IS GENERATED.
- R. A CAR GOES FASTER AND FASTER AS ONE PUSHES DOWN ON THE GAS PEDAL.
- *C. A CAR GOING DOWN A MOUNTAIN GOES FASTER AND FASTER AS THE DRIVER PUSHES THE GAS PEDAL TO THE FLOOR FOR A SHORT PERIOD OF TIME EVERY 10 SECONDS.
- D. A BIKE TRAVELS FASTER AND FASTER AS THE RIDER PEDALS FASTER AND FASTER.

WHAT GOES UP MUST COME DOWN. DOWN WILL BE DEFINED AS TOWARD THE CENTER OF THE EARTH. WHICH OF THE FOLLOWING FACTS DO NOT SUPPORT THE GENERALIZATIONO

1877

- A. A BALL THROWN UP COMES DOWN.
- B. AN AIRPLANE TAKES OFF AND LANDS.
- *C. A SPACECRAFT HAS LANDED ON THE MOON.
- D. RAIN COMES DOWN AND WATER GOES UP.

THE STUDENT CAN SHOW HIS KNOWLEDGE OF FRACTIONAL CRYSTALLIZATION 0171
BY IDENTIFYING IT'S DEFINITION - %20

A PROCESS WHICH SEPARATES TWO SOLIDS IN SOLUTION IS CALLED 1878

- A. FRACTIONAL DISTILLATION.
- *B. FRACTIONAL CRYSTALLIZATION.
- C. PROGRESSIVE FILTRATION.
- D. TITRATION.

FRACTIONAL CRYSTALLIZATION IS

1879

- A. A PROCESS TO SEPARATE A MIXTURE OF LIQUIDS.
- B. IS A PROCESS TO SEPARATE SOLIDS FROM LIQUIDS BY CAPEFUL FILTRATION.
- *C. A PROCESS THAT USES DIFFERENCES IN SOLUBILITY TO SEPARATE TWO SOLIDS.
- D. A PROCESS OF CAREFUL NEUTRALIZATION OF AN ACID BY A BASE.

THE STUDENT DEMONSTRATES HIS UNDERSTANDING OF GRAPHED DATA BY ASSOCIATING PLOTTED POINTS WITH GIVEN DATA. %411

0172

DIRECTIONS - PAT+S TURTLE + RALPH+ WON A TURTLE RACE AT THE COUNTY FAIR - RALPH+S PERFORMANCE IS SHOWN ON THE FOLLOWING GRAPH - USF THIS GRAPH TO ANSWER THE NEXT FOUR QUESTIONS.



IN FIVE MINUTES. RALPH TRAVELED

. A . 5 FT .

*B. 7 FT.

C. 15 FT.

D. 19 FT.

F. 3 FT.

IT TOOK RALPH HOW MANY MINUTES TO GO 6 FTO

*A. 4 MIN.

H. 6 MIN.

C. 10 MIN.

D. 3 MIN.

TWO MINUTES AFTER THE RACE STARTED RALPH WAS

A. STILL ON THE STARTING LING.

B. LESS THAN 2 FT. FROM THE STARTING LINE.

*C. MORE THAN 2 FT. FROM THE STARTING LINE.

D. 2 FT. FROM THE STARTING LINE.

RALPH TRAVELED 4 FT. FROM THE STARTING LINE IN

1. 2 MIN.

*R. LESS THAN 2 MIN.

C. MORE THAN 2 MIN.

D. CANNOT TELL FROM THE GRAPH.

1880

1881

1882

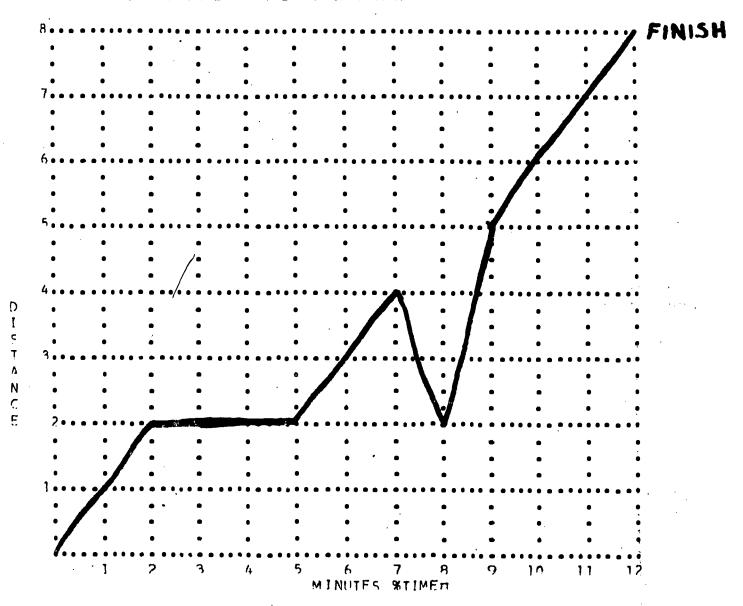
1883

135

ERIC Full Text Provided by ERIC

THE STUDENT WILL DEMONSTRATE HIS UNDERSTANDING OF GRAPHICAL DATA BY IDENTIFYING A GIVEN SET OF GRAPHED POINTS OR CHANGE. %7# 0173

DIRECTIONS - RALPH %THE TURTLED RAN IN THE NIRT* AFTER WINNING IN THE COUNTY FAIR. HIS PERFORMANCE IS SHOWN ON THE FOLLOWING GRAPH. USE THE GRAPH TO ANSWER THE FOLLOWING SEVEN OUFSTIONS. *NATIONAL INVITATIONAL REPTILE TOURNAMENT



IN TEN MINUTES. RALPH WAS

1884

- A. 5 FT. FROM THE STARTING LINE.
- B. 21 FT. FROM THE STARTING LINE.
- C. 11 FT. FROM THE STARTING LINE.
- *D. 6 FT. FROM THE STARTING LINE.

FOR THE FIRST TWO MINUTES OF THE RACE, RALPH, 5 SPEED WAS

1885

- A . 2 FT . PER HOUR .
- *R. 2 FT. PER MIN.
- C. 2 FT. PER MIN. D. 1 MIN. PER FT.
- RALPH WASNOT MOVING DURING THE
 - *A. FOURTH MINUTE.
- B. SIXTH MINUTE.
 - C. EIGHTH MINUTE.
 - D. TENTH MINUTE.



| RALPH+S SPEED WAS 2 FT. PER MINUTE DURING THE | 1887 |
|--|---|
| A. FIRST MINUTE. | 7001 |
| R. SIXTH MINUTE. | · |
| *C. FIGHTH MINUTF. D. ELEVENTH MINUTF. | • |
| De EErvenier mingre . | |
| RALPH TURNED AROUND AND WALKED BACK TOWARD THE STARTING LINE | 1888 |
| DURING THE | 1000 |
| *A. FIGHTH MINUTE. | |
| B. THIRD MINUTE. | |
| C. NINTH MINUTE. D. FIRST MINUTE. | • |
| TO THESE MINUTE. | |
| RALPH+S SPEED IN THE TENTH MINUTE OF THE RACE WAS THE #SAME* | 1889 |
| AS HIS SPEED IN THE | 1009 |
| A. FIFTH MINUTE. | |
| 8. EIGHTH MINUTE. | |
| C. NINTH MINUTE. **P. SEVENTH MINUTE. | |
| " IN O REALINIUM WINTILL | |
| RALPHOS AVERAGE SPEED FOR THE ENTIRE PACE WAS | 1890 |
| A. TWO FT. PER MIN. | 1031) |
| *B. LESS THAN TWO FT. PER MIN. | • |
| C. MORE THAN TWO FT. PER MIN. | |
| D. IMPOSSIBLE TO FIGURE OUT. | |
| | |
| * # # # # # # # # # # # # # # # # # # # | ************ |
| | \ \ / |
| THE STUDENT WILL DEMONSTRATE HIS UNDERSTANDING OF MASS AND WEIGHT | 0174 |
| AND HOW THEY ARE MEASURED BY IDENTIFYING THE RESULTS OF USING A BALANCE SCALE OR SPRING SCALE IN GIVEN SITUATIONS. %200 | · |
| | |
| THE DEVICE THAT MEASURES THE PULL OF GRAVITY | 1891 |
| A. BALANCE SCALE. | |
| *R. SPRING RALANCE | |
| C. BALANCE SCALE AND SPRING BALANCE D. NONE OF THESE CHOICES | |
| The Mark of Trians. Crayles | |
| AT SCHOOL, JERRY PUTS A GRAM OF FEATHERS ON ONE SIDE OF A BALANCE | 1892 |
| SCALES AND A GRAM OF SALT ON THE OTHER SIDE | |
| *A. THE SCALE WILL PALANCE. | |
| B. THE SCALE WILL DROP ON THE SALT.S SIDE. C. THE SCALE WILL DROP ON THE FEATHER.S SIDE. | |
| D. THE SCALE WILL DROP ON BOTH SIDES. | |
| | |
| TED PLACES A PENNY ON ONE SIDE OF A BALLANCE SCALE AND A BALL OF | 1893 |
| PAPER ON THE OTHER SIDE. THE PENNY AND PAPER BALANCE EXACTLY. TE | |
| TED TRIED TO BALANCE THE SAME THINGS ON . THE MOON *A. THE SCALL WOULD BALANCE AGAIN. | |
| B. THE SCALE WOULD DROP ON THE PENNY SIDE. | |
| C. THE SCALE WOULD DROP ON THE PAPER SIDE. | |
| D. THE SCALE WOULD RISE ON BOTH SIDES. | |
| | () |
| DIRECTIONS - JEAN HAS A BALANCE SCALE AND A SET OF *METRIC | ********************************* |
| STANDARDS OF MASS.* ONE SIDE OF THE BALANCE SCALE IS LABELED *X*. THE OTHER SIDE IS LABELED *Y*. IN THE FOLLOWING QUESTIONS | |
| IDENTIFY THE RESULT OF THE GIVEN ACT. | 137 |
| to the control of the | |

IDENTIFY THE RESULT OF THE GIVEN ACT.

JEAN PUTS 10 G. IN X+ 5 G. IN Y--1894 *A. X WILL DROP. B. Y WILL DROP. C. X AND Y WILL BALANCE. D. X AND Y WILL BOTH DROP. SHE PUTS POWDER IN X AND A 10 G. *STANDARD* IN Y. X AND Y BALANCE EXACTLY. THEN SHE REMOVES THE POWDER AND SAVES IT. JEAN NOW PUTS 1895 PENNIES IN X. WITH THE STANDARD IN Y. X AND Y BALANCE *AGAIN*. IF SHE TAKES THE STANDARD OUT OF Y AND PUTS THE POWDER IN Y INSTEAD A. X WILL DROP. R. Y WILL DROP. *C. X AND Y WILL BALANCE. D. X AND Y WILL BOTH RISE. AN ERASER IN X. A 10 G. STANDARD IN Y. X *DROPS*. IF JEAN TRIED THIS AGAIN ON THE TOP OF A MOUNTAIN 1896 *A. X WILL DROP. R. Y WILL DROP. C. X AND Y WILL BALANCE. D. X AND Y WILL BOTH RISE. AN ERASER IN X. A 15 G. STANDARD IN Y. X AND Y BALANCE. *BELOW* 1897 SEA LEVEL A. X WILL DROP. B. Y WILL DROP. *C. X AND Y WILL BALANCE. D. X AND Y WILL BOTH DROP. BAG OF DUST IN X. A 5 G. STANDARD IN Y. *X* DROPS. ON A *SPRING. 1898 -9ALANCE* *A. X WILL WEIGH MORE. B. Y WILL WEIGH MORE. C. X AND Y WILL WEIGH THE SAME. A MAGNET IN X. A 20 G. STANDARD IN Y. X AND Y BALANCE EXACTLY. JEAN HANDS THE MAGNET FROM A COILED SPRING. AND THE SPRING STRETCHES ONE CENTIMETER. SHE REMOVES THE MAGNET AND HANGS THE *STANDARD* ON THE SPRING. NOW THE SPRING WILL STRETCH *A. ONE CM. R. LESS THAN ONE CM. C. MORE THAN ONE CM. D. NOT AT ALL. JEAN USES A *SPRING BALANCE* TO MEASURE A HAMMER AND A WRENCH. BOTH MEASURE 200 G. ON THE *BALANCE SCALE*--HAMMER IN X--WRENCH 1900 IN Y--A. X DROPS. R. Y. DROPS. C. X AND Y BOTH DROP. *D. X AND Y BALANCE. JEAN TAKES HER EQUIPMENT TO THE MOUN. SHE PUTS ONE MOONROCK IN X AND A 30 G. STANDARD IN Y. *Y* DROPS. IF SHE DOES THE *SAME* 1901 THING WITH THE *SAME * ROCK BACK ON EARTH A. X AND Y WILL RALANCE. . B. X WILL DROP. ~*C. Y WILL DROP.

D. X AND Y WILL BOTH DROP.

TILL ON THE MOON, JEAN PUTS MOONDUST IN X, A 5 G. STANDARD IN Y. 1902 X AND Y BALANCE. IF SHE DOES THE SAME THING WITH THE SAME DUST ON *FARTH* A. X WILL DROP. R. Y WILL DROP. : C. X AND Y WILL BOTH DROP. '*D. X AND Y WILL BALANCE. DIRECTIONS - MEOR QUESTIONS 13-150 MIKE HAS A *SPRING BALANCE* AND A SET OF METRIC STANDARDS OF MASS. HE USES THESE TO PERFORM A FFW EXPERIMENTS. WITH A 40 G. STANDARD, THE SPRING BALANCE IS PULLED TWO CENTI-1904 METERS. A 40 G. BAG OF FEATHERS WILL STRETCH THE BALANCE A. NOT AT ALL. R. LESS THAN 2 CM. C. MORE THAN 2 CM. *D. 2 CM. A 10 G. STANDARD AND A COIN ARE BALANCED FIRST ON A *BALANCE* 1905 SCALE. THEN THE STANDARD IS HUNG ON A SPRING BALANCE-THE SPRING STRETCHES 1/2 CM. IF THE COIN IS HUNG FROM THE SPRING BALANCE, THE SPRING WILL STRETCH A. NOT AT ALL. B. LESS THAN 1 CM. C. MORE THAN 1/2 CM. *n. 1 CM. IN SCHOOL KAY PLACES A 50 G. STANDARD ON A SPRING BALANCE-THE 1906 SPRING STRETCHES 5 CM. ON THE *MOON*, THE SAME STANDARD WILL STRETCH THE SAME SPRING BALANCE A. MORE THAN 5 CM. *B. LESS THAN 5 CM. . C. NOT AT ALL. D. 5 CM. AT SEA LEVEL . A BAG OF FEATHERS WIEGHS 5 G. ON A *BALANCE SCALE* AT SEA LEVEL. THE BAG OF FEATHERS WILL MEASURE A. ALMOST NOTHING. #R. 5 G. C. MORE THAN 5 G. D. LESS THAN 5 G. CRITICAL THINKING . THE CHILD WILL DEMONSTRATE HIS ABILITY TO LOCATE THE CENTRAL IDEA 0113 BY SELECTING IT AFTER READING OR LISTENING TO A GIVEN SELECTION. EXAMINE A RUBBER SPONGE. A ROCK, OR A BOOK. OBSERVE THAT EACH 1072 OBJECT OCCUPIES A CERTAIN SPACE AND THAT EACH HAS A DEFINITE WEIGHT. WE MIGHT TAKE ONE OF THESE OBJECTS TO THE TOP OF A HIGH MOUNTAIN. OR EVEN TO THE MOON. THE AMOUNT OF MATTER CONTAINED IN AN OBJECT REMAINS THE SAME AT ANY PLACE IN THE UNIVERSE, ALTHOUGH ITS WEIGHT VARIES FROM PLACE TO PLACE. A MEASURE OF THE AMOUNT OF

MATTER AN OBJECT CONTAINS IS CALLED ITS MASS.

- A. THE AMOUNT OF MATTER IN AN OBJECT IS CALLED THE MASS.
- *B. AN OBJECT ALWAYS POSSESSES THE SAME AMOUNT OF MATTER: OR MASS:
 - C. MASS IS THE AMOUNT OF MATTER OF AN OBJECT.

THE WORD EVOLUTION IN ITS SIMPLEST SENSE MEANS *CHANGE*. CONTEMPORARY OBSERVATIONS SHOW THAT SPECIES OF ORGANISMS CAN AND DO
CHANGE. OR EVOLVE. MOREOVER. THE FOSSIL RECORD DEMONSTRATES CONCLUSIVELY THAT CHANGES **EVOLUTION** HAS BEEN A DOMINANT CHARACTERISTIG IN THE PAST HISTORY OF THE BIOSPHERE.

1073

CHOOSE THE MAIN IDEA THAT COMES FROM THE PARAGRAPH.

- A. EVOLUTION MEANS CHANGE.
- *B. OBSERVATIONS AND FOSSIL RECORDS INDICATE THAT SPECIES UNDER-GO CHANGE.
 - C. EVOLUTION IS A FACT.
 - D. THE PAST HISTORY OF THE BIOSPHERE IS DEMONSTRATED BY EVOLUTION.

THE KILOGRAM IS THE UNIT OF MASS IN THE METRIC SYSTEM. A UNIVERSAL UNIT OF MASS WAS NOT A MATTER TO BE SETTLED BY DISCOVERY BUT RATHER TO BE DEFINED AND ADOPTED BY GENERAL AGREEMENT OF THE NATIONS OF THE WORLD. UNDER SUCH AN AGREEMENT, THE UNIT OF MASS WAS ESTABLISHED AS THE MASS OF A CERTAIN BLOCK OF PLATINUM ALLOY PRESERVED WITH ELABORATE PRECAUTIONS BY THE INTERNATIONAL BUREAU OF WEIGHTS AND MEASURE IN FRANCE. THE MASS OF THIS BLOCK IS THE KILOGRAM.

1074

CHOOSE THE MAIN IDEA.

- A. THE KILOGRAM IS THE UNIT OF MASS IN THE METRIC SYSTEM.
- *B. UNITS ARE AND MUST BE DEFINED BEFORE USE.
- C. PLATINUM ALLOY IS USED AS THE STANDARD UNIT.

MAN.S DESIRE TO UNDERSTAND THE ENVIRONMENT IN WHICH HE LIVES HOLDS THE KEY TO ALL HIS KNOWLEDGE OF THE MATERIAL UNIVERSE. MAN IS BY NATURE BASICALLY CURIOUS AND WANTS TO KNOW THE WHY AND HOW OF THINGS. HE WANTS TO KNOW WHAT MAKES THEM *TICK*. WANTING TO UNDERSTAND THE MATERIAL UNIVERSE. HE SEEKS EXPLANATIONS FOR ITS BEHAVIOR THROUGH SCIENCE.

1075

CHOOSE THE MAIN IDEA OF THE ABOVE PARAGRAPH.

- A. MAN IS CURIOUS.
- B. SCIENCE BEGINS WITH CHRIOSITY.
- C. MAN WANTS TO LEARN ALL.
- D. MAN WANTS TO KNOW WHAT MAKES THINGS *TICK*.
- *E. MAN USES THE TOOLS OF SCIENCE TO ANSWER HIS QUESTIONS.

THE METRIC SYSTEM IS USED BY SCIENTISTS ALL OVER THE WORLD. IN MOST COUNTRIES IT IS ALSO THE ONLY SYSTEM OF WEIGHTS AND MEASURES USED BY THE PEOPLE. IN THE UNITED STATES THE ENGLISH SYSTEM IS MORE COMMONLY USED. HOWEVER, SINCE THE USE OF THE METRIC SYSTEM IS RAPIDLY INCREASING. WE SHOULD BECOME FAMILIAR WITH IT. YOU WILL FIND IT IS MUCH SIMPLER THAN OUR ENGLISH SYSTEM BECAUSE IT IS BASED ON DECIMALS MUCH LIKE OUR MONETARY SYSTEM.

1076

CHOOSE THE MAIN IDEA OF OF THE ABOVE PARAGRAPH.

- *A. BECAUSE OF ITS INCREASE USE: THE METRIC SYSTEM IS BECOMING THE MOST IMPORTANT SYSTEM OF MEASURE.
 - B. THE METRIC SYSTEM IS FASIER THAN THE ENGLISH SYSTEM BECAUSE IT IS BASED ON DECIMALS.
 - C. ALL SCIENTISTS USE THE METRIC SYSTEM.

| THE CHILD WILL DEMONSTRATE HIS ABILITY TO DISTINGUISH BETWEEN FACT AND OPINION DIRECTIONS—CHOOSE *F* IF THE GIVEN STATEMENT IS A FACT, AND *0* 0044 IF THE STATEMENTS, *828 DIRECTIONS—CHOOSE *F* IF THE GIVEN STATEMENT IS A FACT, AND *0* 1077 F 0* THE MICROSCOPE IS THE GREATEST AIDE TO THE BIOLOGIST. 1077 F 0* ALL BIOLOGY IS USEFUL TO EVERY DAY LIVING. F 0* ALL BIOLOGY IS USEFUL TO EVERY DAY LIVING. F 0* SCIENCE IS THE MOST DIFFICULT SUBJECT OFFERED IN ELEMENTARY 1080 SCHOOL. F 0* SCIENCE IS THE MOST DIFFICULT SUBJECT OFFERED IN ELEMENTARY 1081 F 0* VARM BLOODED ANIMALS MAKE BETTER PETS THAN COLD—BLOODED ONES. F 0* SAND IS NOT A DESTRABLE ADDITION TO FARMING SOILS. DIRECTIONS—RFAD FACH STATEMENT CAREFULLY. IF THE STATEMENT IS A TRUE FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF HOW PEOPLE FEFT CIRCLE THE *R*. CATS MAKE GOOD PETS. A. FACT A. OPINION MATER IS MORE DENSE THAN OIL. *A. FACT A. FACT A. FACT A. PACT A. FACT A. PACT A | ************************ | ********* |
|--|--|-------------------------------|
| F THE STATEMENT IS AN OPINION. F O* THF MICROSCOPE IS THE GREATEST AIDE TO THE BIOLOGIST. F O* ALL BIOLOGY IS USEFUL TO EVERY DAY LIVING. F* O* CHARLES DARWIN IS USUALLY GIVEN CREDIT FOR THE THEORY OF EVOLUTION. F O* SCIENCE IS THE MOST DIFFICULT SUBJECT OFFERED IN ELEMENTARY SCHOOL. F O* COLOGY IS MORF IMPORTANT THAN ROTANY. F O* WARM BLOODED ANIMALS MAKE BETTER PETS THAN COLD-BLOODED ONES. F O* SAND IS NOT A DESIRABLE ADDITION TO FARMING SOILS. DIRECTIONS—— READ FACH STATEMENT CAREFULLY. IF THE STATEMENT IS A THUF FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF HOW PEOPLE FEFL CIRCLE THE *R*. CATS MAKE GOOD PETS. A. FACT *A. OPINION **A. PACT *B. OPINION MATER IS MORE DENSE THAN OIL. *A. FACT *B. OPINION MATER IS MORE DENSE THAN OIL. *A. FACT *B. OPINION MEN ARE MESSIFR THAN WOMEN. A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *A. FACT | FACT AND OPINION STATEMENTS BY CORRECTLY CATEGORIZIN | H BETWEEN 0114 |
| F 0* ALL BIOLOGY IS USEFUL TO EVERY DAY LIVING. F* 0 CHARLES DARWIN IS USUALLY GIVEN CREDIT FOR THE THEORY OF EVOLUTION. F 0* SCIENCE IS THE MOST DIFFICULT SUBJECT OFFERED IN ELEMENTARY 1080 SCHOOL. F 0* ZOOLOGY IS MORF IMPORTANT THAN ROTANY. 1081 F 0* WARM BLOODED ANIMALS MAKE BETTER PETS THAN COLD-BLOODED 1082 ONES. F 0* SAND IS NOT A DESIRABLE ADDITION TO FARMING SOILS. DIRFCTIONS— RFAD FACH STATEMENT CAREFULLY. IF THE STATEMENT IS A TRIME FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF HOW PEOPLE FEFL CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF A. FACT B. OPINION MOST TREES ARE GREEN IN SUMMER. **A. FACT B. OPINION MOST TREES ARE GREEN IN SUMMER. **A. FACT B. OPINION **A. FACT B | DIRECTIONS CHOOSE *F* IF THE GIVEN STATEMENT IS A IF THE STATEMENT IS AN OPINION. | FACT, AND *O* 0044 |
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| EVOLUTION. F O* SCIENCE IS THE MOST DIFFICULT SUBJECT OFFERED IN ELEMENTARY SCHOOL. F O* 200LOGY IS MORE IMPORTANT THAN ROTANY. 1081 F O* WARM BLOODED ANIMALS MAKE BETTER PETS THAN COLD-BLOODED 1082 ONES. F O* SAND IS NOT A DESIRABLE ADDITION TO FARMING SOILS. DIRECTIONS— READ FACH STATEMENT CAREFULLY. IF THE STATEMENT IS A TRUE FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF HOW PEOPLE FEFL CIRCLE THE *B*. CATS MAKE GOOD PETS. A. FACT *A. OPINION SCIENCE IS A FUN SUBJECT. A. FACT *B. OPINION WATER IS MORE DENSE THAN OIL. *A. FACT *B. OPINION THE METRIC SYSTEM IS THE BEST SYSTEM OF MEASUREMENT. A. FACT *B. OPINION MONT TREES ARE GREEN IN SUMMER. A. FACT B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MIST TREES ARE GREEN IN SUMMER. | F O* ALL BIOLOGY IS USEFUL TO EVERY DAY LIVING. | 1078 |
| SCHOOL: F O* ZOOLOGY IS MORE IMPORTANT THAN ROTANY. 1081 F O* WARM BLOODED ANIMALS MAKE BETTER PETS THAN COLD-BLOODED 1082 ONES. F O* SAND IS NOT A DESIRABLE ADDITION TO FARMING SOILS. DIRECTIONS— READ FACH STATEMENT CAREFULLY. IF THE STATEMENT IS A TRIVE FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF HOW PEOPLE FEEL CIRCLE THE *B*. CATS MAKE GOOD PETS. A. FACT *R. OPINION SCIENCE IS A FUN SUBJECT. A. FACT *B. OPINION WATER IS MORE DENSE THAN OIL. *A. FACT *B. OPINION THE METRIC SYSTEM IS THE REST SYSTEM OF MEASUREMENT. A. FACT *R. OPINION MEN ARE MESSIER THAN WOMEN. A. FACT *R. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION FISH HAVE LUNGS AND GILLS. | The state of the s | THEORY OF 1079 |
| F O* WARM BLOODED ANIMALS MAKE BETTER PETS THAN COLD-BLOODED ONES. F O* SAND IS NOT A DESIRABLE ADDITION TO FARMING SOILS. DIRECTIONS— READ FACH STATEMENT CAREFULLY. IF THE STATEMENT IS A TRUE FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF HOW PEOPLE FEFL CIRCLE THE *R*. CATS MAKE GOOD PETS. A. FACT *R. OPINION SCIENCE IS A FUN SUBJECT. A. FACT *B. OPINION WATER IS MORE DENSE THAN OIL. **A. FACT *B. OPINION THE METRIC SYSTEM IS THE REST SYSTEM OF MEASUREMENT. A. FACT *B. OPINION MEN ARE MESSIFR THAN WOMEN. A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *B. OPINION FISH HAVE LUNGS AND GILLS. *A. FACT *B. OPINION FISH HAVE LUNGS AND GILLS. | THE MOST DITTICALL SUBJECT OFFERED | IN ELEMENTARY 1080 |
| ONES. F O* SAND IS NOT A DESIRABLE ADDITION TO FARMING SOILS. DIRECTIONS—— READ FACH STATEMENT CAREFULLY. IF THE STATEMENT IS A TRIFE FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF HOW PEOPLE FEFL CIRCLE THE *B*. CATS MAKE GOOD PETS. A. FACT *R. OPINION SCIENCE IS A FUN SUBJECT. A. FACT *B. OPINION WATER IS MORE DENSE THAN OIL. *A. FACT R. OPINION THE METRIC SYSTEM IS THE BEST SYSTEM OF MEASUREMENT. A. FACT *B. OPINION MEN ARE MESSIFR THAN WOMEN. A. FACT *R. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT *R. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT R. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT R. OPINION FISH HAVE LUNGS AND GILLS. *A. FACT *A. FACT *A. FACT *A. FACT *B. OPINION | F 0# 700LOGY IS MORE IMPORTANT THAN BOTANY. | 1081 |
| DIRECTIONS— READ FACH STATEMENT CAREFULLY. IF THE STATEMENT IS A TRIF FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF HOW PEOPLE FEFL CIRCLE THE *B*. CATS MAKE GOOD PETS. A. FACT *R. OPINION SCIENCE IS A FUN SUBJECT. A. FACT B. OPINION WATER IS MORE DENSE THAN OIL. **A. FACT B. OPINION THE METRIC SYSTEM IS THE REST SYSTEM OF MEASUREMENT. A. FACT **B. OPINION MEN ARE MESSIFR THAN WOMEN. A. FACT **R. OPINION MOST TREES ARE GREEN IN SUMMER. **A. FACT B. OPINION MOST TREES ARE GREEN IN SUMMER. **A. FACT B. OPINION FISH HAVE LUNGS AND GILLS. 1091 | THE PERSON ANTIMALS MAKE DELITER PERSONNELLE | D-BLOODED 1082 |
| A TRIFE FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST A MATTER OF HOW PEOPLE FEFL CIRCLE THE *B*. CATS MAKE GOOD PETS. A. FACT *R. OPINION SCIENCE IS A FUN SUBJECT. A. FACT *B. OPINION WATER IS MORE DENSE THAN OIL. *A. FACT B. OPINION THE METRIC SYSTEM IS THE BEST SYSTEM OF MEASUREMENT. A. FACT *R. OPINION MEN ARE MESSIFR THAN WOMEN. A. FACT *R. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION FISH HAVE LUNGS AND GILLS. *A. FACT *A. FACT | F O* SAND IS NOT A DESIRABLE ADDITION TO FARMING SO |)ILS• 1083 |
| A. FACT #R. OPINION SCIENCE IS A FUN SUBJECT. A. FACT #B. OPINION WATER IS MORE DENSE THAN OIL. *A. FACT B. OPINION THE METRIC SYSTEM IS THE BEST SYSTEM OF MEASUREMENT. A. FACT #B. OPINION MEN ARE MESSIFR THAN WOMEN. A. FACT #R. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION FISH HAVE LUNGS AND GILLS. *A. FACT *A. FACT | A TRUE FACT CIRCLE THE *A*. IF THE STATEMENT IS JUST | STATEMENT IS 0045 A MATTER OF |
| A. FACT *B. OPINION WATER IS MORE DENSE THAN OIL. *A. FACT R. OPINION THE METRIC SYSTEM IS THE BEST SYSTEM OF MEASUREMENT. A. FACT *B. OPINION MEN ARE MESSIFR THAN WOMEN. A. FACT *R. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT R. OPINION FISH HAVE LUNGS AND GILLS. *A. FACT *A. FACT | A. FACT | 1085 |
| *A. FACT B. OPINION THE METRIC SYSTEM IS THE BEST SYSTEM OF MEASUREMENT. A. FACT *B. OPINION MEN ARE MESSIFR THAN WOMEN. A. FACT *B. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION FISH HAVE LUNGS AND GILLS. **A. FACT | A. FACT | 1086 |
| A. FACT #B. OPINION MEN ARE MESSIFR THAN WOMEN. A. FACT #R. OPINION MOST TREES ARE GREEN IN SUMMER. #A. FACT B. OPINION FISH HAVE LUNGS AND GILLS. #A. FACT | *A. FACT | 1087 |
| A. FACT #R. OPINION MOST TREES ARE GREEN IN SUMMER. *A. FACT B. OPINION FISH HAVE LUNGS AND GILLS. #A. FACT | A. FACT | 1088 |
| *A. FACT B. OPINION FISH HAVE LUNGS AND GILLS. #A. FACT 1091 | A. FACT | 1089 |
| ₩Õ FACT | *A. FACT | 1090 |
| | #A. FACT | 1091 |



A. FACT *B. OPINION

| or intole | |
|---|-------|
| PENCILS ARE EASIER TO USE THAN PENS. A. FACT *B. OPINION | 1093 |
| DIRECTIONS IF THE STATEMENT LISTED BELOW ARE FACTS. CIRCLE THE *F*. IF THE STATEMENT CAN *NOT* BE READILY PROVED OR DISPROVED. CIRCLE THE *O*. | 0046 |
| F O* BLACK IS A GOOD COLOR. | 1094 |
| F* 0 SOME DOGS ARE BROWN. | 1095 |
| F* 0 ALL DOGS HAVE FOUR LEGS. | 1096 |
| F 0* YELLOW HOUSES ARE ATTRACTIVE. | 1097 |
| F O* GOLDFISH MAKE DULL PFTS. | 1098 |
| F* 0 ALL COWS EAT GRASS. | 1099 |
| F O* ALICE+S HAIRDO IS UGLY+ | 1100 |
| F* 0 GRASSHOPPERS ARE SMALLER THAN BIRDS. | 1101 |
| F O* ROSES SMELL GREAT. | 1102 |
| F O* FORD MAKES THE BEST CARS. | 1103 |
| DIRECTIONS READ THE FOLLOWING STATEMENTS. IF THE STATEMENT IS A FACT, CIRCLE THE *F*. IF THE STATEMENT IS AN OPINION, CIRCLE THE #O*. | 0047 |
| F O* TIME MAGAZINE COVERS EACH NEWS ITEM VERY THOROUGHLY. | 1104 |
| F 0* FIRESTONE 770 TIRES WITHSTAND FXCESSIVE ABUSE FOR OVER 50.000 MILES. | 1105 |
| F O* MONDAY IS THE WORSE DAY OF THE WEEK. | 1106 |
| F* 0 MORE GIRLS WEAR MINIS THAN MAXIS. | 1108 |
| F O# MAXIS ARE THE UP-COMING FASHION. | 1109 |
| F* O EVERYGREENS ARE THE MOST USED TYPE OF PLANTS IN LANDSCAP- ING. | 1111 |
| * *********************************** | ***** |
| THE STUDENT WILL DEMONSTRATE HIS UNDERSTANDING OF THE IMPORTANCE OF FACTS AND OPINIONS BY SELECTING STATEMENTS THAT ARE MOST DIFFICULT TO PROVE. %150 | 0115 |
| (IRECTIONS—— IN FACH OF THE FOLLOWING QUESTIONS. FIND THE SEN- FENCE WHICH WOULD BE *MOST* DIFFICULT TO PROVE. CIRCLE THE LETTER OF THE MOST DIFFICULT STATEMENT TO PROVE. | 0048 |
| WHICH WOULD BE *MOST* DIFFICULT TO PROVEO | 1113 |

| · | |
|---|---|
| A. BUTTERFLIES HAVE TWO SETS OF WINGS. | |
| *C. BUTTERFLIES ARE BEAUTIFUL. | |
| WHICH WOULD BE *MOST* DIFFICULT TO PROVEO | 1114 |
| A. MOTHS HAVE THREE BODY PARTS. B. THE FEELERS OF A MOTH ARE MORE FEATHERY THAN THOSE OF A | |
| BUTTERFLY. *C. MOTHS ARE NOT AS PRETTY AS BUTTERFLIES. | |
| WHICH WOULD BE MOST DIFFICULT TO PROVEO | 1115 |
| A. CATERPILLARS HATCH FROM BUTTERFLY EGGS. **B. CATERPILLARS ARE UGLY. | • . |
| C. CATERPILLARS SPIN COCOONS. | |
| *************************************** | |
| THE CUID WILL DISDLAY HIS ADJUITY TO DISTINCUISE DETWEEN | 0119 |
| THE CHILD WILL DISPLAY HIS ABILITY TO DISTINGUISH BETWEEN FACTS THAT ARE RELEVANT TO | 0119 |
| SITUATION OR PROBLEM BY CORRECTLY IDENTIFYING THE RELEVANT AND NONRELEVANT PHRASES. %20# | |
| AND NORRELEVANT PHRASES # 3200 | |
| DIRECTIONS - YOU HAVE BEEN ASKED TO GIVE A REPORT ON THE LIFE OF A HONEY BEE, FOR YOUR SCIENCE CLASS. READ THE FOLLOWING PAR- | • |
| AGRAPHS. WHICH ONES WOULD HELP YOUR | |
| WHEN A COLONY BECOMES OVERCROWDED. THE OLD QUEEN STOPS LAYING | 2763 |
| EGGS. THE WORKERS BUILD CELLS FOR NEW QUEENS, AND ABOUT FOUR DAYS | 2763 |
| LATER COVER THE CELLS WITH WAX. A FEW DAYS AFTER THE NEW QUEEN CELLS ARE COVERED OVER WITH WAX. MANY OF THE WORKERS AND THE OLD | 2763 2763 |
| QUEEN LEAVE THE HIVE AS A SWARM. | 2763 |
| *A. THIS PARAGRAPH HFLPS. | 2763 |
| B. THIS PARAGRAPH DOES NOT HELP. | 2763 |
| MANY PERSONS ARE MORE INTERESTED IN STUDYING BEES AND THEIR | 2764 |
| HABITS THAN THEY ARE IN GATHERING HONEY. BEES CAN BE KEPT IN BOTH | |
| CITY AND FARM AREAS. THE BEGINNER MUST BUY HIS BEES EITHER AS A PACKAGE OF WORKERS AND A QUEEN. OR AS A COMPLETE HIVE. HE SHOULD | |
| MAKE SURE THAT HIS COLONY HAS BEEN INSPECTED BY THE STATE BEE | 2764 |
| INSPECTOR AND FOUND FREE OF DISFASE. | 2764 |
| A. THIS PARAGRAPH HELPS. | 2764 |
| *B. THIS PARAGRAPH DOES NOT HELP. | 2764 |
| THE PEOPLE OF THE STONE AGE, THOUSANDS OF YEARS AGO ATE HONEY | 2765 |
| THAT THEY STOLE FROM THE HIVES OF WILD BEES. SOME OF THESE PEOPLE LEARNED TO MAKE CRUDE HIVES FOR THE BEES. SO THE HONEY WOULD BE | 2765 2 7 65 |
| NEAR THEIR HOMES. THEY PROBABLY MADE THESE FIRST BEEHIVES OUT OF | 2765 |
| HOLLOW LOGS. | 2765 |
| A. THIS PARAGRAPH HELPS. | 2765 |
| *B. THIS PARAGRAPH DOFS NOT HELP. | 2765 |
| SPECIAL GLANDS IN THE ABDOMENS OF YOUNG WORKERS PRODUCE BEESWAX. | 2766 |
| THE WAX OOZES THROUGH SMALL PORES OR HOLES IN THE BODY AND FORMS TINY WHITE FLAKES ON THE OUTSIDE OF THE ABDOMEN. A BEE USUALLY | 2766 2766 |
| | , e. v |
| *A. THIS PARAGRAPH HELPS. | · · · · 2766 \ · · · |
| B. THIS PARAGRAPH DOES NOT HELP. | 2766 |
| DIRECTIONS WHAT IS THE APPEARANCE OF SEA URCHINSO IF THE SEA | 0049 |
| STATEMENT HELPS YOU IN DISCOVERING THE APPEARANCE OF THE SEA | |

URCHIN CIRCLE THE *A*. IF THE STATEMENT DOFS NOT HELP YOU, CIRCLE THE *B*.

| | A | B * | SEA URCHINS LIVE NEAR THE SEA. | 1116 |
|---------|------------|--------------|--|------|
| | Α¥ | H | THEY ARE COVERED WITH SPINES AND LOOK LIKE BURRS. | 1117 |
| | A* | В | THEY MOVE SLOWLY BY MEANS OF THE TUBE-LIKE FEET HIDDEN BENEATH THE SPINES. | 1118 |
| | Α¥ | B | THE TUBES ON THEIR UPPER SURFACES MOVE PIECES OF SEAWEED TO THEIR MOUTHS. | 1119 |
| | Â | в* | IF A STARFISH COMES TOO NEAR. THE URCHIN SINKS SEVERAL SETS OF CURVED PINCERS INTO THE STARFISH. | 1120 |
| | AB(| TUC 11 VC | TIONS WHICH OF THE FOLLOWING IDEAS TELLS YOU THE MOST HOW SCREWS HELP US% IF THE STATEMENT IS HELPFUL IN NG THE TOPIC CIRCLE THE *A*• IF THE STATEMENT DOFS NOT YOU. CIRCLE THE *B*• | 0050 |
| | A | B# | MIKE AND HIS FATHER ARE GOING FISHING. | 1121 |
| | A * | В | A SCREW CAN HOLD A CAR WHEEL TIGHTLY IN PLACE. | 1122 |
| | A | 8* | A SCREW TURNS. | 1123 |
| | A * | R | JAR TOPS HAVE WINDING EDGES. THE EDGES ARE SCREWS THAT KEEP THE LIDS ON TIGHT. | 1124 |
| <u></u> | A * | B | A SCREW CAN HELP LIFT HEAVY THINGS. | 1125 |
| ۲. | Ά | ė* | THE BASE OF A LIGHT BULB IS A SCREW. | 1126 |
| • | CIF | RCLE RCLE | TIONS IF THE STATEMENT IS HELPFUL IN PROVING THE TOPIC THE *A*. IF IT DOES NOT HELP YOU IN PROVING THE TOPIC. E THE *B*. | 0051 |
| | | | WHAT DOES A LOBSTER DO AT NIGHTO | |
| | A | 8* | FISHERMEN PLACE THE LOBSTER TRAPS IN THE BOTTOM OF THE OCEAN. | 1127 |
| | A * | R | AFTER DARK. THE LOBSTER COMES OUT OF HIS HIDING PLACE AND SCOUTS AROUND FOR FOOD. | 1128 |
| | A | 8 * | THE TRAP IS A CAGE WITH STOUT WOODEN SLATS. | 1129 |
| | A | #3 | WHEN HE IS READY TO COME OUT. HE CANNOT FIND THE SMALL OPENING IN THE FUNNEL. | 1130 |
| | A* | В | THE LOBSTER SPENDS MOST OF HIS TIME ON THE OCEAN FLOOR. | 1131 |
| | AB | TUO | TIONS WHICH OF THE FOLLOWING IDEAS TELLS YOU THE MOST HOW LEVERS HELP USO IF THE PHRASE IS HELPFUL CIRCLE THE IF IT DOESN•T HELP YOU• CIRCLE THE *B*• | 0052 |
| | ** > | В | LEVERS HELP TO LIFT HEAVY THINGS. | 1132 |
| | ; A | B* | AN IRON BAR IS A LEVER. | 1133 |
| | A # | В | A HAMMER IS A LEVERIT PULLS OUT NAILS. | 1134 |

| A H* PEGGY AND MARY HAVE FUN ON A SEA SAW. | 1135 |
|---|-------|
| A B* FATHER WORKS HARD WHEN HE ROWS THE BOAT. | 1136 |
| A* B A KNIFE IS A LEVER. IT CUTS FOOD. | 1131, |
| A B* A CROWBAR IS A LEVER. | 1138 |
| DIRECTIONS ANN IS WRITING A REPORT ON *WATER** READ THE PARAGRAPHS BELOW. IF YOU THINK IT WOULD HELP ANN CIRCLE THE *A*. IF YOU DON.T THINK IT WOULD HELP. CIRCLE THE *B*. | 0053 |
| A* B WATER IS USED AT SCHOOL AND AT HOME. WATER IS USED FOR DRINKING, WASHING, COOKING, AND MANY OTHER THINGS. PEOPLE, ANIMALS, AND PLANTS ALL NEED WATER. | 1139 |
| A B* MOTHER IS COOKING SOMETHING FROM A RECIPE. HOW DOES SHE KNOW HOW MUCH WATER TO USED A MEASURING CUP WILL HELP HER. | 1140 |
| A* B WHEN WATER EVAPORATES. IT GOES INTO THE AIR. WE CANNOT SEE THE WATER IN THE AIR. BUT IT IS THERE. | 1141 |
| A* B WIND MAKES WATER EVAPORATE MORE QUICKLY. HEAT MAKES WATER EVAPORATE MORE QUICKLY. | 1142 |
| A B* WATER PIPES IN A HOME COME IN DIFFERENT SIZES. THEY ARE MADE OF IRON. BRASS OR COPPER. | 1143 |
| DIRECTIONS JEAN IS WRITING A REPORT CALLED, *FACTS ABOUT MAGNETS*. READ THE PARAGRAPHS BELOW AND CIRCLE THE *A* IF THE PARAGRAPH WOULD HELP YOU AND *B* IF IT WOULDN.T. | 0054 |
| A B* THE BOOK, *MICKEY, S MAGNET*, WAS WRITTEN BY FRANKLYN BRANLEY AND ELEANOR VAUGHAN. IT IS FUN TO READ ABOUT MICKEY, S ADVENTURES WITH HIS MAGNET. | 1144 |
| A* B MAGNETS PICK UP THINGS MADE OF IRON. WITH A MAGNET, WE CAN TELL IF SOMETHING IS MADE OF IRON. | 1145 |
| A* B MAGNETS ARE MADE IN DIFFERENT SHAPES. BUT THEY ALL PICK UP IRON. A HORSESHOE MAGNET IS USUALLY STRONGER THAN A STRAIGHT MAGNET BECAUSE IT HAS TWO ENDS PULLING ON AN OBJECT AT ONCE. | 1146 |
| A B* A FAMOUS MAGICIAN ONCE USED A MAGNET TO PERFORM A MAGIC TRICK. HE FRIGHTENED THE SOLDIERS AWAY AND STOPPED THE WAR. | 1147 |
| A* B MAGNETS CAN PICK UP IRON THINGS THROUGHT PAPER, GLASS, WATER, ETC. IF THE MATERIAL IS TOO THICK, A STRONGER MAGNET IS NEEDED. | 1148 |
| DIRECTIONS WHICH OF THE FOLLOWING STATEMENTS HELP YOU IN DIS- COVERING CHARACTERISTICS OF INSECTSO IF THE STATEMENT DOES HELP YOU. CIRCLE THE *A*. IF IT DOES *NOT* HELP YOU. CIRCLE THE *B*. | 0055 |
| A* B CRICKETS HAVE SIX LEGS. ALL INSECTS HAVE SIX LEGS. | 1149 |
| A B# SOME CRICKETS CHIRP AT NIGHT. | 1150 |

| | A | H* | I FOU | ND ANO | HER I | NSECT | ۰, | SAID | DAN. | IT I | S AN A | INT. | | | | 1151 |
|-----|------------|--------------------------------|-----------------------------------|---------------------------------------|--------------------------|--------------------|--------------|-----------------------|-------------------------|----------------------------|----------------|-----------------|--------|---------|-------------|------|
| | A * | В | THE A | NT HAS | THREE | PART | rs 1 | го ні | s ROD | Y. ALI | L INSE | ECTS H | AVE T | HREE | | 1152 |
| | 4 | 8 | A DRA | GONFLY | HAS A | NTEN | NAE | • A D | RAGON | FLY I | S AN I | INSECT | • | | | 1153 |
| | A | В# | SOME | INSECT | SLIVE | IN V | NATE | ER. | | | | | | | | 1154 |
| | Α* | В | | HER GRA | | | _AY | 5 HER | EGGS | S IN T | HE GRO | DUND. I | EVERY | | | 1155 |
| | ** | *** | ***** | **** | **** | ·*** | *** | **** | **** | **** | **** | ***** | **** | **** | ***** | **** |
| | SEt | _ E C | TING T | TLL DFI HE MOS SELECT | r LOGI | CAL C | | | | | | | S BY | | | 0120 |
| | DI | REC | TIONS- | - READ | THE F | OLLO | N I N | G PAR | AGRAF | PH• | | | | | | 56 |
| | HO! | RES VEV | A HOL ER• SI PUNCT | ABOUT E IN OI LK OBTA URED BY BEFORE | NE END AINED Y THE | OF FROM INSE | THE TH! | COCO ESE C STEA | OON AN OCOON M OR | ID EME IS IS HOT A | RGES / | AS A MO | OTH. | ONCE | | |
| C | WH1 | ETH J A | ER IT RE UNA | F THE I IS TRUI BLE TO PROVI | E• PRO | BABL' | Y TI ETHI | RUE, Er it | FALSE IS 1 | PRO | BABLY R FAL | FALSE SE FRO | OR THE | | | |
| | I T | WI A • B • C • D • | LL TAK TRUE PROBAE FALSE | CT IS DEFOUR LY TRU | TO FI | | | | . STIL | L EME | RGE A | S A MO | TH• f | ВИТ | | 1156 |
| | | E 0 | | OF TH | E SILI | < 15 | RU I | NED 1 | F THE | E INSE | CT EM | ERGES | FROM | THE | | 1157 |
| • | * | A • B • C • D • | TRUE PROBAR FALSE | BLY TRU BLY FAL SAY | | | | | | | | | | | | |
| | TH | E .S | AIR OR SILK FI TRUE | STEAM BERS P | IS USI LIABLI | ED TO | ΚI | LL T | HE INS | SECT, | AND I | T ALSO | KEE | Ps | : | 1158 |
| | , | C • D • | FALSE | SLY TRU BLY FAL SAY | | | | | | | | | | . · · • | 4. 43. A | |
| ; (| ∖ JT | ILL A• | BE US TRUE | | | HAD O | NLY | `PAR1 | TLY EI | MERGED | •⊤нЕ | SILK | COUL |) | | 1159 |
| | | છ • | LKORY | BLY TRU | t. | | | | | • | | • | | • • • | | |

C. FALSE

*D. PROBABLY FALSE F. CAN.T SAY THE MOTH CAN ONLY EMERGE FROM ONE SPECIFIC END OF THE COCOON. 1160 A. TRUE **B. PROBABLY TRUE** *C. FALSE D. PROBABLY FALSE F. CAN.T SAY THE CHILD WILL DEMONSTRATE HIS ABILITY TO RECOGNIZE STATED AND 0122 UNSTATED ASSUMPTIONS BY %LISTING OR SELECTINGS THEM AFTER READING OR LISTENING TO A GIVEN SELECTION. %15m DIRECTIONS -- READ THE FOLLOWING PARAGRAPH. 57 ANY MECHANISM FOR EVOLUTION MUST EXPLAIN HOW ORGANISMS CAN DEVELOP ADAPTATIONS TO THEIR ENVIRONMENT. ADAPTATIONS ARE INHER-ITED STRUCTURAL OR FUNCTIONAL CHARACTERISTICS OF AN ORGANISM THAT GIVE THAT ORGANISM OR THE POPULATION TO WHICH IT BELONGS AN ADVANTAGE IN ITS ENVIRONMENT. WELL KNOWN EXAMPLES ARE THE TUFTED SFED OF THE DANDELION, THE WEBBED FEET OF THE DUCK, AND THE LONG NECK OF THE GIRAFFE. A MECHANISM THAT WOULD EXPLAIN EVOLUTION MUST BE ABLE TO ACCOUNT FOR ANY SUCH ADAPTATIONS. IF THE STATEMENT LISTED BELOW IS A STATED ASSUMPTION IN THE ABOVE PARAGRAPH CIRCLE THE *A*. IF IT IS AN UNSTATED ASSUMPTION CIRCLE THE *B*. EVOLUTION IMPLIES CHANGE. 1161 *A. STATED B. UNSTATED THE ENVIRONMENT DEMANDS ADAPTATION. 1162 *A. STATED B. UNSTATED ONLY THE FIT SURVIVE. 1163 A. STATED **B. UNSTATED EVOLUTIONARY IMPORTANT ADAPTATIONS ARE TRANSMITTED GENETICALLY. *A. STATED B. UNSTATED ANCESTORS OF THE MODERN DAY GIRAFFE PROBABLY HAD SHORT NECKS. 1165 -A. STATED *B UNSTATED

ALL CHANGES ARE RENDERED FOR THE BENEFIT OF AN ORGANISM OR POPULATION AND THEREFORE ARE ADAPTATIONS.

1166

A. STATED

*B. UNSTATED

DIRECTIONS -- READ THE FOLLOWING PARAGRAPH.

- 58

LOUIS PASTEUR S WORK WAS RESPONSIBLE FOR UNLOCKING THE MYSTERY OF THIS PROCESS %YEAST RISINGD. HE FOUND THAT WHILE THE

DOUGH WAS IN WARM AIR. TINY PLANTS CALLED YEAST BECAME EMBEDDED IN THE SUBSTANCE. THE YEAST PRODUCE ENZYMES THAT SET OFF CHEMICAL REACTIONS TO PRODUCE FEMENTATION. THE END PRODUCT BEING BUBBLES OF CARBON DIOXIDE., THESE. IN TURN. EXPAND AND CAUSE THE DOUGH TO RISE.

AF THE STATEMENT LISTED BELOW IS A STATED ASSUMPTION IN THE ABOVE PARAGRAPH, CIRCLE THE *A*. IF THE STATEMENT IS AN UNSTATED ASSUMPTION, CIRCLE THE *B*.

| ANDOIN FLORY CENTER THE TO B | |
|--|------|
| A GAS CAUSES YEAST TO RISE. *A. STATED B. UNSTATED | 1167 |
| DOUGH: IN A COLD ROOM, WILL NOT RISE. A. STATED **R.** UNSTATED | 1168 |
| ENZYMES REDUCE THE DOUGH TO SIMPLER SUBSTANCES. A. STATED *B. UNSTATED | 1169 |
| PASTEUR WAS A GREAT SCIENTIST. A. STATED *B. UNSTATED | 1170 |
| YEAST ARE GREEN PLANTS. A. STATED *B. UNSTATED | 1171 |
| FERMENTATION IS CAUSED BY A SERIES OF CHEMICAL REACTIONS. *A. STATED B. UNSTATED | 1172 |
| IF CARBON DIOXIDE IS THE RESULT OF RESPIRATION AND FERMENTATION. THEN THESE TWO PROCESSES ARE VERY SIMILAR. A. STATED. **B.********************************* | 1173 |
| | |

DRUGS

| THE STUDENT CAN DEMONSTRATE KNOWLEDGE OF PHARMACOLOGICAL DEFINITIONS BY LISTING THE TWO DETERMINING FACTORS OF DR ABUSE. %10 | |
|--|---------|
| SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. | 0010 |
| FROM A PHARMACOLOGICAL POINT OF VIEW. DRUG ABUSE IS DETE | |
| USER AND IS ILLEGAL. *B. THE WILLFUL MISUSE OF DRUGS THAT CAN BE HARMFUL TO USER AND TO SOCIETY. | THE |
| C. THE WILLFUL MISUSE OF DRUGS THAT CAN BE HARMFUL TO | SOCIETY |

D. ALL OF THE ABOVE



IN ANALYZING A HYPOTHETICAL CASE, THE STUDENT CAN DISTINGUISH 0125 BFTWEEN A DRUG USER AND A DRUG ABUSER. %40 SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. 0010 A MAN WHO IS USING A DRUG AND NOT ABUSING IT WILL 0844 A. NOT BE SURE OF THE DRUG. 5 PURITY. B. INCREASE THE DOSAGE AS HE DEEMS NECESSARY. *C. FOILOW THE DIRECTIONS GIVEN ON THE BOTTLE. D. PURCHASE IT FROM HIS FRIEND BECAUSE IT IS MORE CONVENIENT FOR HIM. A SEVENTH GRADE BOY WHO IS A DRUG ABUSER MOST LIKELY WILL *NOT* 0845 A. TAKE THE DRUG BECAUSE OF THE DARE. *B. PURCHASE THE DRUG FROM A PHARMACIST. C. TAKE THE DRUG TO BELONG TO A GROUP. D. KNOW HE IS VIOLATING THE LAW. A LADY HAD A PRESCRIPTION FILLED AT THE DRUG STORE. THE LABEL 0847 READ, --TAKE TWO TABLETS EVERY 4 HOURS.-- TWO HOURS AFTER TAKING THE PRESCRIBED DOSE SHE EXPERIENCED NO EFFECTS SO SHE TOOK ONE MORE TABLET. SHE WAS A A. DRUG USER. *A. DRUG ABUSER. C. THERE ISN, T ENOUGH INFORMATION GIVEN TO TELL IF SHE IS A DRUG USER OR AN ABUSER. 0126, WHEN GIVEN A HYPOTHETICAL CASE, THE STUDENT CAN IDENTIFY THE ABUSE OF STIMULANT DRUGS BY SELECTING THE ABUSED DRUG. %20 SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 8000 A TRUCK DRIVER DELIVERING QUICKLY PERISHABLE FRUITS TO LOS 0848 ANGELES IS DEPENDING ON A DRUG TO ALLOW HIM TO MAKE THE DRIVE WITHOUT HAVING TO STOP TO SLEEP. THIS DRUG THE DRIVER IS ABUSING 15 A A. DEPRESSANT. B. PSYCHOTOGEN. C. PHENOLBARBITAL. #D. STIMULANT. MORE SPECIFICALLY. THE TRUCK DRIVER IN THE PREVIOUS ITEM WAS MOST PROBABLY ABUSING *A - AN AMPHETAMINE. B. A BARBITURATE. C. MORPHINE. D. A TRYPTAMINE DERIVATIVE. THE STUDENT WILL DEMONSTRATE AN UNDERSTANDING OF A STIMULANT DRUG 0127

%20

AND ITS FUNCTION BY MATCHING IT WITH ITS DEFINITION AND FUNCTION.

A DRUG THAT ALLOWS A STRONGER THAN NORMAL ELECTROCHEMICAL 0865 IMPULSE TO TRAVEL FROM ONE NEURON TO ANOTHER WOULD BE A *A. STIMULANT. B. DEPRESSANT. C. PRODUCT OF CHRONIC USAGE. D. HALLUCINGEN. GIVEN A HYPOTHETICAL SITUATION, THE STUDENT CAN APPLY HIS UNDER-0128 STANDING OF DEPRESSANTS AND STIMULANTS BY SELECTING THE LIKELY FFFECTS ON THE ABUSER. %2m SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. 0010 A MAN HAS BEEN TAKING A STIMULANT FOR 33 HOURS. AFTER THE PERIOD 0873 OF STIMULATION FROM THE DRUG HAS WORN OFF, HE WILL BE A. BACK TO NORMAL FEELINGS. B. STIMULATED TO A HIGHER DEGREE THAN HE WAS BEFORE. *C. IN A PERIOD OF DEPRESSION. D. NONE OF THE ABOVE THE STUDENT WILL APPLY HIS KNOWLEDGE OF DEPRESSANT DRUGS BY 0129 SELECTING THE DRUG ABUSED IN GIVEN SITUATIONS. %11 ELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 0008 A MAN HAS BEEN ABUSING A DRUG WHICH AT FIRST CREATED A FEELING OF 0875 EUPHORIA: BUT NOW HE TAKES THE DRUG JUST TO FEEL NORMAL: THIS MAN IS PROBABLY ABUSING SOME DRUG CLASSIFIED AS A ***A. DEPRESSANT.** H. HALLUCINOGEN. C. STIMULANT. D. TRYPTAMINE DERIVATIVE. THE STUDENT WILL SHOW KNOWLEDGE OF THE MEANING OF DEPRESSANT DRUGS BY SELECTING ITS DEFINITION AND FUNCTION. %20 SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 0008 A DEPRESSANT DRUG IS ONE WHICH WILL THE FUNCTION OF A CELL, 0876 TISSUE + OR ORGAN. A. INCREASE. *R. DECREASE. C. PRODUCE. D. HAVE NO EFFECT ON

SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT ..

0008

ERIC

Full Text Provided by ERIC

SELECTING ITS DEFINITION. %1

THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF THE TERM *EUPHORIA* BY 0131

| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
|--|------------|
| EUPHORIA IS DEFINED AS A. A FEELING OF ILLNESS. B. A FEELING OF PANIC. *C. A FEELING OF WELL BEING. D. NONE OF THE ABOVE | 878 : / |
| ****************** | |
| | **** |
| GIVEN A LIST OF COMPOUNDS WHOSE EFFECTS ARE KNOWN THE STUDENT WILL DESIGNATE WHICH COMPOUND PRODUCES A FEELING OF EUPHORIA. %11 | 0132 |
| SFLECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. | 0010 |
| A FEELING OF EUPHORIA WOULD MOST LIKELY BE PRODUCED AFTER *A. TAKING AN ANTIHISTAMINE SUCH AS CONTAC. B. QUICKLY CONSUMING 2 CANS OF COKE. C. TAKING AN AMPHETAMINE SUCH AS BENZEDRINE. | 0879 |
| D. HAVING A TEMPERATURE OF 102 F. | |
| ** ** ** ** ** ** ** ** ** ** ** ** ** | ****** |
| THE STUDENT WILL DEMONSTRATE AN UNDERSTANDING OF DEPRESSANTS BY IDENTIFYING THE TYPE OF DEPRESSANT %SUCH AS ETHYL ALCOHOL, OPIATES, BARBITUATES, INHALANTS, OR MARIJUANAD WHICH IS BEING | 0133 |
| ABUSED IN A GIVEN SITUATION. %70 | (1) |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| A COMPOUND THAT, CONTRARY TO MOST PEOPLES BELIEF, IS A DEPRESSANT DRUG, IS A. SLEEPING PILLS. | 0880 |
| B. NICOTINE. *C. ETHYL ALCOHOL. D. TRANQUILIZERS. | |
| A MAN HAS BEEN ARRESTED ON DRUG ABUSE CHARGES 19 TIMES, AND HAS SPENT 12 OF THE PAST 21 YEARS IN REFORM SCHOOLS, JAILS, AND PRISONS. ALL OF THESE ARRESTS AND IMPRISONMENTS WERE DUE TO THE POSSESSION AND ABUSE OF DEPRESSANT DRUGS. THIS ABUSED DRUG MOST LIKELY IS A. AN INHALANT. | 0881 |
| B. A HARBITURATE. C. A TRYPTAMINE DERIVATIVE. *D. AN OPIATE. | |
| MORE SPECIFICALLY THE MAN IN THE PREVIOUS ITEM WAS MOST LIKELY ABUSING A. L.S.D. | 0882 |
| *B. HEROIN. C. PHENOLBARBITAL. D. TOLUENE. | 700 m |
| A 30 YEAR OLD LADY GOES TO A PARTY AND ABUSES A DEPRESSANT DRUG. THIS DRUG MOST LIKELY IS #A. ETHYL ALCOHOL. | 0883 |
| B. CODINE. | |

C. TRANQUILIZERS.

D. TOLUENE.

IN LOWER ANIMALS. MARIJUANA ACTS AS A

886

A. STIMULANT.

*B. DEPRESSANTA

C. PSYCHOTOGEN.

D. BOTH B AND C

GIVEN A HYPOTHETICAL CASE, THE STUDENT WILL DEMONSTRATE AN UNDER-STANDING OF PSYCHOTOGENS BY IDENTIFYING IT AS THE ABUSE OF A PSYCHOTOGENIC. %211 0134

SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT.

0008

0888

A TRUCK DRIVER WENT TO A PARTY WITH SOME FRIENDS. ONE OF THE PARTY MEMBERS HAD BROUGHT A DRUG TO THE PARTY AND PERSUADED THE TRUCK DRIVER TO ACCOMPANY HIM IN THE ABUSE OF THE DRUG. AN HOUR AFTER THE DRUG WAS TAKEN. THE DRIVER BEGAN TO SEE THINGS HE HAD NEVER SEEN BEFORE, HEAR THE SOUNDS OF THE FLOOR CRACKING AS THE PARTY GUESTS MOVED ABOUT. AND BEGAN TO TASTE THE COLOR RED. THE DRUG BEING ABUSED BY THE TRUCK DRIVER IS PROBABLY A

A. DEPRESSANT.

- *B. PSYCHOTOGEN.
- C. PHENOLBARBITAL.
- D. STIMULANT.

0889

- THE TRUCK DRIVER IN THE PREVIOUS ITEM IS EXPERIENCING
- . A. EUPHORIA.
 - *B. HALLUCINATIONS.
 - C. DISPHORIA.
 - D. ALL OF THE ABOVE

THE STUDENT WILL DEMONSTRATE KNOWLEDGE OF PSYCHOTOGENICS BY SELECTING THEIR CORRECT DEFINITION AND FUNCTION. %1 =

.

0135

SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT.
THE USE OF A PSYCHOTOGENIC DRUG CAN

0010 890

- A. PRODUCE HALLUCINATIONS.
- B. PRODUCE MENTAL CHANGES.
- C. RESULT IN PSYCHOTIC BEHAVIOR. #D. ALL OF THE ABOVE

GIVEN A HYPOTHETICAL CASE, THE STUDENT CAN DISTINGUISH BETWEEN ACUTE OR CHRONIC DRUG USE OR ABUSE BY SELECTING THE DESCRIPTION WHICH MATCHES EACH CASE. %211

0137

FLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT.

0008

0896

IN WHICH OF THE ABOVE CASES IS A DRUG BEING ABUSEDO

- A. A DIABETIC TAKE: A SHOT OF INSULIN EVERY MORNING.
- B. A MAN TAKES ANTIHYSTAMINE TO CURE HIS COLD.

| · | |
|--|--|
| *C. A LADY TAKES A DOSE OF L.S.D. TO SEE WHAT IT IS LIKE. D. A GIRL TAKES TWO ASPIRIN TO RELIEVE HER HEADACHE. | |
| WHICH OF THE ABOVE CASES IS AN EXAMPLE OF CHRONIC DRUG USAGEO **A. A DIABETIC TAKES A SHOT OF INSULIN EVERY MORNING. B. A MAN TAKES ANTIHYSTAMINE TO CURE HIS COLD. C. A LADY TAKES A DOSE OF L.S.D. TO SEE WHAT IT IS LIKE. D. A GIRL TAKES TWO APSIRIN TO RELIEVE HER HEADACHE. | 0897 |
| WHICH OF THE FOLLOWING IS AN EXAMPLE OF ACUTE USAGEO A. A MAN PHYSICALLY DEPENDENT UPON HEROIN TAKES TWO SHOTS A DAY. B. A GIRL WITH A BROKEN LEG HAS BEEN TAKING 2 ASPIRIN EVERY 4 HOURS FOR THE LAST SEVEN WEEKS. *C. A MAN WAS GIVEN A BOTTLE OF 50 PILLS BY HIS DOCTOR. HE IS TO TAKE 3 PILLS EACH DAY UNTIL THEY ARE ALL USED. D. NONE OF THE ABOVE | 0898 |
| *************************************** | *********** |
| THE STUDENT CAN SHOW KNOWLEDGE OF THE CONCEPT THAT THE PURITY AND DILUTENT OF A DRUG CAN CONTRIBUTE TO THE EFFECTS OF THE DRUG. AND THAT ONE CANNOT BE SURE OF THIS PURITY OF THE DRUG WHEN IT IS PURCHASED BY ILLEGAL MEANS BY SELECTING THESE FACTORS FROM A GROUP OF AFFECTING FACTORS IN A HYPOTHETICAL SITUATION. %1 | |
| SFLECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. | 001 |
| A STUDENT PURCHASES A DRUG FROM A STREET-CORNER-PUSHER. THE AFFECTING FACTOR ONE SHOULD BE *MOST* CONCERNED ABOUT WOULD BE *A. THE PURITY OF THE DRUG. B. THE RELIABILITY OF THE PUSHERS. C. THE PRICE CHARGED FOR THE DRUG. D. THE LEGALITY OF THE PURCHASE. | 092 |
| *************************************** | ***** |
| THE STUDENT WILL SHOW KNOWLEDGE OF THE DEFINITION OF TOLERANCE BY SELECTING ITS CORRECT DEFINITION FROM A LIST. %10 | 014 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 000 |
| A PROGRESSIVE REDUCTION IN RESPONSE TO A CERTAIN DOSAGE OF A DRUG IS KNOWN AS A. DELAYED RESPONSE. B. PSYCHOLOGICAL DEPENDENCE. **C. TOLERANCE. D. ALL OF THE ABOVE | 092 |
| 技 班班班拉斯 在 法政策的 衛 在水水水水 有 有 并 有 并 有 有 有 有 有 有 有 有 有 有 有 有 有 | ************************************* |
| THE STUDENT WILL DEMONSTRATE AN UNDERSTANDING OF ABSOLUTE TOLER-ANCE, NON-ABSOLUTE TOLERANCE AND CROSS TOLERANCE BY SELECTING THE TYPE OF TOLERANCE INVOLVED IN A HYPOTHETICAL CASE. %30 | |
| SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 000 |
| \cdot | |

A MAN DRINKS 12 CUPS OF COFFEE IN THE MORNING, BUT AFTER DRINKING 0928

148153

TO THIS DRUG. HAS DEVELOPED AZAN *A. ABSOLUTE TOLERANCE H. NON-ABSOLUTE TOLERANCE C. CROSS TOLERANCE D. PHYCHOLOGICAL TOLERANCE A BOY IS ABUSING A DRUG, BUT AFTER A SHORT PERIOD OF TIME HE 0929 FINDS THE DRUG NO LONGER PRODUCES EUPHORIA, SO HE INCREASES THE DOSAGE AND AGAIN EXPERIENCES EUPHORIA. THIS BOY HAS DEVELOPED TO THIS DRUG. A. ABSOLUTE TOLERANCE *R. NON-ABSOLUTE TOLERANCE C. CROSS TOLERANCE D. PHYCHOLOGICAL TOLFRANCE AFTER 6 MONTHS, THE BOY IN THE PREVIOUS QUESTION SWITCHED TO A 0930 SIMILAR DRUG BECAUSE THE DOSAGE NEFDED TO PRODUCE EUPHORIA BECAME TOO EXPENSIVE. UPON SWITCHING TO THE NEW DRUG: HE FOUND HE NEEDED A LARGE DOSAGE OF IT ALSO. THIS BOY HAS DEVELOPED MANA TO THIS DRUG. A. ABSOLUTE TOLERANCE B. NON-ABSOLUTE TOLERANCE *C. CROSS TOLERANCE D. PSYCHOLOGICAL TOLERANCE THE STUDENT WILL SHOW KNOWLEDGE OF THE DEFINITION OF HABITUATION 0.146 BY SELECTING IT FROM A LIST OF ALTERNATIVES. SELECT THE PHRASE THAT BEST COMPLETES THE STATEMENT. 0010 A PSYCHOLOGICAL DEPENDENCE UPON A DRUG IS USUALLY REFERRED TO AS 0931 A . ADDICTION . B. TOLERANCE. C. DEGENERATION. *D. HARITUATION. THE STUDENT WILL SHOW KNOWLEDGE OF THE DEFINITION OF ADDICTION 0147 BY SELECTING IT FROM A LIST OF ALTERNATIVES. %10 SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. 0008 A PHYSICAL DEPENDENCE UPON A DRUG IS USUALLY REFERRED TO AS 0933 *A. ADDICTION. B. TOLERANCE. C. DEGENERATION. D. HABITUATION. THE STUDENT WILL SHOW KNOWLEDGE OF THE CHARACTERISTICS OF DRUG INTERACTION BY SELECTING THE TYPE OF INTERACTION INVOLVED IN A GIVEN SITUATION. %10

THE SEVENTH CUP, HE EXPERIENCES NO FURTHER STIMULATION. THIS MAN

| SELECT THE WORD OR PHPASE THAT BEST COMPLETES THE STATEMENT. | 8000 |
|---|------------------|
| A MAN TAKES TWO KINDS OF DRUGS BEFORE GOING TO BED WITH THE IDEA THAT THEY WILL PUT HIM TO SLEEP. THIRTY MINUTES LATER HE REALIZED THAT NOTHING HAS HAPPENED. THE EFFECT OF THE INTERACTION OF THESE DRUGS HAS BEEN A. REACTION. B. POTENTIATION. *C. COUNTERACTED. D. TOLERATED. | 093 4 /) |
| | , |
| ************************************** | **** |
| THE STUDENT WILL SHOW KNOWLEDGE OF THE MEANING OF PHARMACOLOGICAL EFFECTS BY SFLECTING ITS CORRECT DEFINITION. %1m | 0149 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | 0008 |
| PHARMACOLOGICAL EFFECTS ARE THOSE ACTIONS OF DRUGS ON A. FARM ANIMALS. *H. LIVING THINGS. | 0935 |
| C. PLANTS. D. ALL ANIMALS. | |
| ************************* | ***** |
| GIVEN A HYPOTHETICAL CASE, THE STUDENT WILL SHOW UNDERSTANDING OF USES. HAZARDS, AND SIDE EFFECTS OF DRUGS BY SELECTING THE MOST PROBABLE DRUG USED IN A GIVEN SITUATION. %140 | 0150 |
| SELECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT. | ,0008 |
| A DRUG WHOSE THERAPEUTIC USES INCLUDE TREATMENT OF DEPRESSION AND OVERWEIGHT IS A. METHYLPHENICLATE. B. BARBITURATE. C. NICOTINE. #D. AMPHETAMINE. | 0936 |
| A USFFUL ACTION OF NICOTINE IS TO A. DECREASE ONES APPETITE. *B. KILL BUGS. C. CAUSE AN IRREGULAR HEART BEAT. D. BOTH A AND C | 937 |
| PROBABLY THE MOST MISUSED DRUG DURING THE HISTORY OF MAN HAS BEEN A. MARIJUANA. B. OPIUM. HC. ETHYL ALCOHOL. D. MESCAL COMPOUNDS. | 0938 |
| THE GREATEST PRESCRIBED THERAPEUTIC USE OF ETHYL ALCOHOL TODAY IS AS A/AN #A. ANTISEPTIC. R. STIMULANT. C. ANAESTHETIC. | 0939 |
| THE GROUP REFERRED TO AS THE NARCOTIC ANALGETICS ARE MORE | 0940 |

¹⁵**1**55

| COMMONLY REFERRED TO AS THE #A. OPIATES. B. BARRITURATES. C. ALCOHOLS. D. AMPHETAMINES. | ; |
|--|------|
| DOCTORS MOST USUALLY PRESCRIBE NARCOTIC ANALGETICS TO A. PRODUCE SLEEP. B. STIMULATE THE MEDULLA. *C. RFLIEVE PAIN. D. PRODUCE INTOXICATION. | 0941 |
| CECIL HAS BEEN ABUSING A SPECIFIC NARCOTIC ANALGETIC FOR SEVERAL YEARS. WHICH OF THE FOLLOWING STATEMENTS IS MOST LIKELY TO BE TRUE ABOUT CECILO A. HE HAS DEVELOPED A NON-ABSOLUTE TOLERANCE TO THE DRUG. B. HE STARTED ABUSING THE DRUG TO EXPERIENCE A FEELING OF FUPHORIA. | 0942 |
| C. HE HAS PIN-POINT PUPILS AFTER TAKING A DOSE OF THE DRUG. ***D. ALL OF THE ABOVE THE MOST COMMON EXAMPLE OF THE SEDATIVE-HYPNOTICS ARE THE A. OPIATES. | 0943 |
| *B. BARBITURATES. C. ALCOHOLS. D. AMPHETAMINES. | |
| AFTER USING A SEDATIVE OR HYPNOTIC FOR A LONG PERIOD OF TIME. THE ABUSER MOST LIKELY WILL DEVELOP A/AN A. ABSOLUTE TOLERANCE. B. NON-ABSOLUTE TOLERANCE. C. PSYCHOLOGICAL DEPENDENCE. *D. BOTH B AND C | 0944 |
| CFCIL WAS GIVEN A MINOR TRANQUILIZER BY A DOCTOR. CFCIL WAS MOST LIKELY SUFFERING FROM A. ALCOHOLISM. *B. EXCESSIVE ANXIETY. C. A LACK OF STIMULATION. D. ALL OF THE ABOVE | 0945 |
| DOCTORS MOST USUALLY PRESCRIBE HALLUCINOGENIC DRUGS TO A. RELIEVE PAIN. B. PRODUCE SLEEP. C. PRODUCE EUPHORIA. *D. NONE OF THE ABOVE | 0946 |
| FOR A NORMAL U.S. CITIZEN, PROBABLY THE GREATEST DANGER FROM TAKING A HALLUCINOGENIC DRUG WOULD BE THE A. SUBCULTURE HE WOULD FALL INTO. B. PSYCHOSIS THAT WOULD FOLLOW. C. HALLUCINATIONS THAT WOULD TAKE PLACE. *D. POSSIBILITY OF A FLASHBACK. | 0947 |
| MARIJUANA IS FOUND IN THE LEAVES OF THE PLANT. A. TORACCO B. MARIJUANA **C. CANNIBUS D. HOPS | 0942 |

THE STUDENT WILL APPLY HIS KNOWLEDGE OF THE POSSIBLE EFFECTS OF EXPERIMENTATION WITH A DRUG BY SELECTING POSSIBLE RESULTS FROM EXPERIMENTATION. %211

0151

SFLECT THE WORD OR PHRASE THAT BEST COMPLETES THE STATEMENT.

8000

WHICH OF THE FOLLOWING STATEMENTS IS/ARE CORRECTO

0952

- A. A PERSON ABUSING A DRUG ONLY ON MONDAY, THURSDAY, AND SATURDAY WILL NOT BECOME PHYSICALLY NOR PSYCHOLOGICALLY DEPENDENT UPON THE DRUG.
- B. EXPERIMENTING WITH A DRUG ONCE WILL NOT HAVE HARMFUL EFFECTS ON YOU.
- C. ALL OF THE ABOVE STATEMENTS ARE CORRECT.
- *D. NONE OF THE ABOVE STATEMENTS ARE CORRECT.

ERIC

| 126-127 |
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| 126-127 |
| 61-62 |
| |
| 121-125 |
| 127-128 |
| 126-127 |
| 129 |
| 129-132 |
| |
| 120 |
| 128-129 |
| 125-126 |
| |
| 121 |
| 29-31 |
| 74-78 |
| 74-75 |
| 75-77 |
| |



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INDEX

| Adhesion | 103 | Critical Thinking | |
|--------------------------------|----------------|---|-----------------------|
| Atom · | 79-8 | Distinguishing Difficulty | |
| Chemical Bonding | 97-98,102 | of Proof | 137-138 |
| Energy levels of | 81 | Distinguishing Fact from | |
| Fuelsh Teagra or | | Opinion | , 136–137 |
| Atomic Weight | 80-81 | Distinguishing Relevant | 100 7 . 7 |
| Atomic Number | 80-81 | from non relevant data Drawing inferences | 138-141 141-142 |
| Bacteria | 54-56 | Locating the central idea | |
| | . , , , , , | Recognizing stated and un | |
| Blood | TO 20 | stated assumptions | 142-143 |
| Abnormal conditions | 20-21 | Density | 95-96 |
| Composition | 17-20 | nemerch | 72-70 |
| Hemorrhage | 22 | Diaphragm | . 9 |
| Immunity | 21 | • | 287 1.0 |
| Rhesus factor | 20 | Digestive system | 37-48 |
| Types of | 20 | Enzymes in | 46-47 |
| Vessels, kinds of | 13-15,25 | Glands of | 47-48 |
| Brain, parts of | 59 | Parts and processes | 37-46 |
| - - | | Stages of | 3 9-4 0 |
| Cartilage tissue | 61-62 | Druge | 143-1.52 |
| Cells, Animal | | Effects | 147,150-152 |
| 19 | 54 -5 6 | Vocabulary 1/ | 43-146,147-150 |
| Biological organization | 52-53 | Ton Hanne | 67-68 |
| Parts and functions | 48-51 | Ear, Human | 0/-00 |
| Protoplasm | 53-54 | Electrolysis | 98-101 |
| Relevant facts | 51-52 | Elements 84-85. | 97 66 60 01 05 |
| Structure | 49-50 | ETAMALO 04-024 | 87,88-89,94-95 |
| Object of a Server of a server | 84,89-91 | Endocrine Glands | 64-66 |
| Chemical formulae | | Energy | 103 |
| | 92-95,101-102 | Functions of | 108-109 |
| Circulatory System · | 12-25 | Kinetic | 1.04 |
| Analogous relationships | 12 | Mochanical advantage | 108 |
| Blood | | Potential | 104-105 |
| Abnormal conditions of | £ 20-21 | Simple Machines | 105-107 |
| Hemorrhage | 22 | Transformation | 104 |
| Immunity | 21 | | |
| Makeup of | 17-20 | Equal Arm Balance | 127-128 |
| Rhesus factor | 20 | Evolution | 142 |
| Турез | 20 | | • |
| Vessels, kinds of | 13-15,25 | Excretory System | 27-37 |
| Heart | 23-26 | Analogous relationships | 35-37 |
| Action of | 26 | Kidney | 34-35 |
| Parts of | 23-25 | Skin's role in excretion | |
| Pulmonary circulation | 15-17 | Urinary system | 29-31 |
| Systemic circulation | 15-17 | Experiment | |
| Cohesion | 103 | Conclusion in | 95 |
| | | Observations in | 95 |
| Tompound | 84-85,88-89 | | |
| ** | | Formula writing | 101-102 |



(

| Fractional Crystallization 129 | Microscope 121-125 |
|--|--|
| Geology | Mineralogy 68-69 |
| Mineralogy 68-69 Rock Classification 69-70 | Mixture 84-85,88-89,91-93 |
| Graphing Date 129-130 | Mold 54-56 |
| Greenhouse Effect 77-78 | Muscle Tissue , 56-57 |
| Hearing 67-68 | Nervous System Brain 59 |
| Heart | Parts and Processes 57-59 |
| Actions of 26 Parts of 23-25 | Newton, Sir Isaac 71-72 |
| Hormones 64-66 | Oceanography 70-71 |
| Hydrocarbons 102-103 | Oxidation in Breathing 5 |
| Indicator Tests | Oxygen Transfer 10 |
| Acids 96–97 | Periodic Table #1-83 |
| Bases 96-97 Neutral Substance 96-97 | Protoplasm 53-54 |
| Insects 141-142 | Pulmonary Circulation 15-17 |
| Joints, body 60-64 | Respiratory System 1-12 Analogous relationships 10-12 |
| Laboratory Safety Procedures 120 | Diaphragmic action 9 |
| Laws of Motion 71-72 | Oxidation 5 |
| Ligaments 61-62 | Total capacity 7-8 Transfer of Oxygen 10 |
| Hatter | Rocket Propellants 74 |
| Atomic Height 80-81 | Scientific Method 125-126 |
| Chemical Change 86-87,97-98,102-103 | • |
| Chemical Symbols and formulas 84,89-91,92-95,101-102 | Scientific Notation 121 |
| Composition of 79-80 | Simple Machines 105-109 |
| Energy Levels 81 Periodic Table 81-83 Properties of 78-79,83-84,85-86,87 States of 87-89,91-92 | Skeletal System Cartilage 61-62 Joints 60-61 Types of 62,63-64 |
| Measurement | Ligaments 61-62 |
| Mass 109,132-134 | Long Bones 63 |
| Hotric System 110-119,135 | Tendons 61-62 |
| Terms Used 119-120 Volume 109 | Solutions 98 Saturated 98 |
| Weight 132-134 | Supersaturated 98 |
| Mechanical Advantage 108 | Unsaturated 98 |
| Hetric System 110-119 | Space Exploration 72-74 |
| | Systemic Circulation 15-17 |

